CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following

Proposed Work

Waterworks, Oakland, Calif., East Bay Municipal Utility Dist. voted bonds, $26,000,000.

Schools, Chicago, Ill., Bd. Educ. plans, $17,500,000.

Bridge, Sarnia, Ont., Sarnia, Ont., and Port Huron, Mich., making preliminary plans, $3,500,000.

Bridge, St. Louis, Mo., Syndicate making preliminary plans, $3,000,000.

Irrigation, Texas, Red Bluff Irrigation Dist. plans, $3,000,000.

Newspaper office and plant, Toronto, Ont., Star Publishing Co. soon takes bids superstructure, $3,000,000.

Cement plant, Port Arkansas, Tex., California Cement Assn. purchased site and plan, $2,500,000.

University, Little Rock, Arkansas, Methodist Church making preliminary plans, $2,500,000 or more.

Bridge, Illinois and Kentucky, E. W. Elliott & Assoc., Chicago, making preliminary plans, $2,500,000.

Office, Toronto, Ont., Holt-Grundy & Co., Montreal, having plans prepared, $2,250,000.

Roads, Canton, Miss., Madison Co. making preliminary plans paving, $2,000,000.

Oil pipe line, Texas, West Texas Pipe Line plans, $2,000,000.

City hall, New Haven, Conn., City receiving competitive plans, $1,750,000.

Apartment, Cincinnati, O., Ohio Building and Constr. Co. plan, $1,500,000.

Hospital, New York, N. Y., Babies Hospital having plans prepared, $1,400,000.

Highways, Dallas, Tex., Dallas Co. making plans, $1,345,249.

Studio, New York, N. Y., W. Russell having plans made, $1,200,000.

Highways, Ventura Co., Calif., plans Tri-County Highway, $1,195,000.

Bids Desired

High school, Chicago, Ill., Dec. 15, by Bd. Educ., $1,500,000.

Office, Birmingham, Mich., A. Kahn, archt., taking bids, $1,000,000.

Bids Received

School, Mt. Washington, O., St. Gregorys Seminary from J. Roche Constr. Co., Cincinnati, $1,500,000.

High school, Cleveland, O., Bd. Educ., from C. Shutrump & Sons Co., $1,198,200.

Contracts Awarded

Hotel, Toronto, Ont., Canadian Pacific Ry., Montreal, to Hamilton Bridge Works, Ltd., McGregor & McIntyre, and Dominion Bridge Co. Total est. $10,000,000.

Hotel and theatre, New York, N. Y., Havermeyer Constr. Co., steel to Levering & Garrigues, concrete to Corbetta Concrete Corp., and plumbing to L. Black. Archts. est. $5,000,000.

Natural gas pipe line, etc., Texas, Stamford Gas Co. to Skaggs Bros., Stamford, approximately $2,575,000.

Apartment, New York, N. Y., One Thousand and Seventy Park Ave., Inc., will build, separate contracts, $1,800,000.

Apartment, New York, N. Y., Forty West 77th Street Corp. will build, by separate contracts, $1,500,000.

Apartment hotel, New York, N. Y., Two Hundred Twenty-Nine East 79th Street Corp. will build, by separate contracts, $1,000,000.

Apartment, New York, N. Y., A. D'Antona will build, by separate contracts, $1,000,000.

News of the Week

Waterworks

Proposed Work

Mass., Attleboro—Plans extending waterworks. $200,000.

Mass., Woburn—City appropriated $15,000 12 in. mains in Main, Nichols, Poole and Webster Sts. Private plans.

Mich., Bellevue — Making plans water distribution system, incl. c.i. mains, specials, hydrants, etc. $50,000. Burd, Giffels & Hamilton, 421 Kelsey Bldg., Grand Rapids, engrs.

Kan., Arlington — Making preliminary plans waterworks, distribution and sewerage system. Engineer not selected.

Kan., Dexter — Voted $30,000 bonds, waterworks and distributing system. W. B. Rollins & Co., 339 Railway Exch. Bldg., Kansas City, Mo. engrs. Noted Oct. 6.

Mo., Cabool—Voted $49,000 bonds, 100,000 gal. rein.-con. reservoir, deep well, 60,000 gal. tank on tower, etc. A. H. Kendricks, Seymour, engr.

Mo., Marceline—Takes bids about Dec. 27, waterworks improvements, incl. filtration and softening plant. $70,000. Black & Veatch, Mutual Bldg., Kansas City, engrs. Noted Nov. 17.

Ark., Mulberry — Making preliminary plans waterworks, distribution and sewerage systems. $100,000.

Tex., Bellville—Voted $55,000 bonds, improving waterworks, incl. distributing system pipe, pumping equipment, etc. Address Mayor.

Tex., Carrizo Springs — Voted $50,000 bonds, waterworks, distribution system, probably well with pumping unit. Address B. L. Jeffrey, mayor.

Tex., Galveston—See "Unclassified."

Tex., La Grange—La Grange Light, Ice & Water Co. plans extending mains and replacing mains in business district with larger pipe. Address Mayor. Engineer selected soon.

Okla., Bristow—Voted $50,000 bonds, extending waterworks, incl. triplex pump and motor. J. Gano, Bristow, engr.

Okla., Canute—Made preliminary plans extending 10,300 ft. 4 and 6 in. mains in various streets. $16,000. Engineer not selected.

Okla., Cheyenne—Making plans waterworks. $40,000. Sherman Iron Wks., 18 East Main St., Oklahoma City, engrs. Noted Nov. 3.

Okla., Gotebo—Voted $24,000 bonds, new water supply. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Aug. 18.

Okla., Meeker—Voted $32,000 bonds, complete waterworks. E. W. Gantt, 1116 West Main St., Oklahoma City, engrs. Noted June 16.

Okla., Mooreland — Making plans new waterworks. $18,000. E. A. Jones, Enid, engr. Noted July 7.

Okla., Mountain View—Making plans soft water supply, incl. impounding reservoir, dam, pipe line and pumps. $35,000. A. B. Carson, Madill, engr.

Okla., Oklahoma City—Making preliminary plans 8,200 ft. 10 in. c.i. mains in Billen Ave. $17,000. B. M. Hart, City Hall, engr.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Calif., Oakland — East Bay Municipal Utility Dist. voted $26,600,000 bonds, constructing or purchasing water distributing system.

Calif., Santa Clara—Making plans extending 87,794 ft. 4- to 14-in. c.i. mains, etc. in various streets. H. B. Fisher, Growers Bank Bldg., San Jose, engr. Noted Aug. 25.

Bids Desired

N. Y., Long Island City — Dec. 13, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 34th, 47th, 48th, and 50th Aves., 95th, 98th, 111th Sts., etc., here.

Minn., Minneapolis—Dec. 22, by F. S. Gram, city purch. agt., 20 m.g. pump and motor for City Water Dept. N. W. Elsberg, city engr. Noted Nov. 3.

Tex., Boerne — Dec. 23, by City Comn., waterworks, incl. drilling and equipping water well. $7,000 (mostly materials). Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Nov. 3.

Tex., Hermleigh—Taking bids and open same about Dec. 8, waterworks, incl. 50,000 gal. tank on 100 ft. tower well, water distributing system, etc. $30,000. Private plans.

Wash., Port Townsend — Dec. 20 (extended date), by City Council, 12 mi. unit water supply line from Big Quilcene River to here. Noted Dec. 1.

Calif., Madera—Dec. 19, by J. Wakefield, city clk., extending 2,879 ft. 6 or 8 in. c.i. mains, etc., in various streets.

Contracts Awarded

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Nassau Blvd., 25th, 76th and 60th Aves., 35th and 46th Sts., etc., here, to B. Costanzo, 114-15 117th St., $20,000. Noted Nov. 17.

W. Va., Parkersburg — Drilling 18 new wells to furnish 600,000 gal. water supply, to Layne-Atlantic Co., Norfolk, Va., $202,000. Engrs. est. $600,000. Noted Oct. 13.

O., Bay (br. Cleveland)—See "Sewers."

O., Cleveland—Cuyahoga Co., 22,000 ft. 6 and 12 in. c.i. mains in Wooster Pike and Depot Rd., to Joseph, Kalill & Jackson, Prospect-4th Bldg., $83,100; and 13,000 ft. 6 and 8 in. in Briar Cliff Subdivision, to Sewer Constr. Co., 3412 East 114th St., $26,866. Noted Nov. 3 and 10.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 9 low pressure electrically and hand operated double disc and 5 high pressure valves for Missouri River Waterworks Station at Howards Bend, St. Louis Co., to Michigan Valve & Fdry. Co., 3631 Parking St., Detroit, Mich., $40,530; also manifold chamber, venturi meter box, steel discharging line, installing valves, etc., to Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., $79,464. Noted Oct. 27.

Tex., Albany—City Council, c/o F. W. Alexander, mayor, constructing rein.-con. settling basins, filter plant and c.i. mains in various streets, to A. M. Barker, 303

See proposal advertising on page 145

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TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Laid 10 miles of water main—and satisfactory in every particular!

—said a waterworks engineer of national reputation, referring to this installation

Here is the story:—

THE Second Taxing District, South Norwalk, Connecticut, U.S.A., has just completed the installation of approximately ten miles of cast iron bell and spigot water mains, varying in size from 6" to 18". The work included the placing of about fifty cutting-in-tees on existing piping and their connection to new work.

Leadite was selected for jointing material after receiving competitive bids for laying with lead.

The total amount of the successful bids for all work, excepting the furnishing of the cast iron pipe, specials and valves, was as follows:

Lead Joints	$155,631
LEADITE Joints	142,535
Difference	$ 13,096
Saving in favor of **LEADITE**	8.4%

The work was performed by contractors experienced in the use of this material and was satisfactory in every particular.

Specifications required that after laying, the pipe should be tested for leakage under water pressures varying from 40 pounds to 115 pounds per square inch, and that the leakage should not exceed two gallons per 24 hours per linear foot of joint. The results of the tests were well within this limit.

This work was under the direction and supervision of Mr. Nicholas S. Hill, Jr., Consulting Engineer, 112 East 19th Street, New York, N.Y., U. S. A.

Leadite is used extensively by thousands of water works engineers, superintendents and contractors with excellent results.

Specify and use **LEADITE** It saves at least 75%

Be sure it is **LEADITE** and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA., U. S. A.

NO CAULKING

Waterworks (Continued)

Foster St., Dallas, $26,751. Engrs. est. $28,000.

Tex., San Antonio—City Comrs. & Water Bd., waterworks improvement, new pumping unit, to H. A. Paine Co., Cotton Exch. Bldg., Houston, $38,842. Noted Oct. 13.

Calif., Burbank—For 13,000 ft. 4 in. and 7,500 ft. 6 in. pipe to Pacific States Cast Iron Pipe Co., Los Angeles; also 1,500 ft. 8 in. pipe, to Amer. Cast Iron Pipe Co., Rives-Strong Bldg., Los Angeles.

Sewers

Proposed Work

Mass., Waltham—Dept. Pub. Wks., Boston, and cities of Belmont and Waltham plan sewerage works in Trapelo Rd. and Mill St., in Belmont and Waltham. $80,000. Private plans.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., rejected bids Nov. 23, sewer in Arnow Ave. Will readvertise. Noted Nov.

N. J., Camden—Dept. Pub. Wks., W. D. Sayres, Jr., City Hall, making plans sewage disposal, 3 m.g. capacity, North Treatment Works, 32nd and Farragut Sts. $325,000. Remington & Vosbury, 509 Cooper St., engrs.

N. J., Newton—Town Com. making plans reconstructing sewage disposal plant, incl. tanks, at Clinton and Sparta Sts. $40,000.

O., Euclid (br. Cleveland) — Takes bids after Mar. 1, 7,000 ft. 84 and 96 in. concrete and segmental block sewer in Babbitt Rd. $350,000. F. A. Thomas, Town Hall, engr.

Ind., New Albany—Plans sewerage system. To exceed $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Ill., St. Elmo—Making preliminary plans complete sewerage system and disposal plant. $50,000. Caldwell Eng. Co., 36 North Side Sq., Jacksonville, engrs.

Ia., Traer—Making preliminary plans and schedules extending sewerage system. $50,000. H. L. Daniel, Traer, engr.

Mo., Desoto—Takes bids about Jan. 1, complete sewerage system. $200,000. C. A. Haskins, 822 Finance Bldg., Kansas City, engr. Noted Sept. 29.

Mo., Farmington—N. E. Bugg, Steward Hospital, rejected bids Nov. 19, complete sewage disposal plant on grounds State Hospital 4. Will readvertise. Black & Veatch, Mutual Bldg., Kansas City, engrs. Noted Nov. 10.

Mo., Springfield—Soon takes bids 17,000 ft. 12- to 24-in. vitr. clay sewers, disposal plant, incl. 2 digestor chambers, clarifiers, trickling sprinklers, etc., in northwestern section city. $185,000. Russell & Axon, 408 McDaniel Bldg., engrs.

Mo., Springfield—City Clerk takes bids about Jan. 15, approximately 15,000 ft. 18 and 24 in. vitr. clay sewers in various streets. $60,000. Russell & Axon, 408 McDaniel Bldg., engrs. Noted Dec. 1.

Tex., Galveston—See "Unclassified."

Okla., Bristow—Voted $68,200 bonds, extending sanitary sewerage system. J. Gano, Bristow, engr. Noted Sept. 8.

Okla., Duncan—Making preliminary plans extending sanitary sewerage system, in Cedar St. $25,000. H. J. Wilkins, Duncan, engr.

Okla., Mountain View—Making plans sewerage system, incl. disposal plant. $35,000. A. B. Carson, Madill, engr.

Okla., Taft—Made preliminary plans 4 mi. sewerage system. $25,000. Engineer not selected.

Okla., Tulsa—Making plans 17,000 lin.ft. 8 and 10 in. sewers in 30th, Cincinnati, Boulder and Peoria Sts. $30,000. C. Schultz, City Hall, engr.

Calif., Los Angeles—Plans 8- to 10-in. vitr. clay sewers in Colgate and Blackburn Aves., etc. To exceed $25,000.

Calif., San Francisco—Making specifications sewage pump and appurtenances for Pine Lake Park Pumping Station. M. M. O'Shaughnessy, city engr.

Bids Desired

N. Y., Long Island City—Dec. 13, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Brinkerhoff and 18th Aves.

N. Y., New York—Dec. 16, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves.; sewers in Esplanade (east side), Yates, Murdock and Putman Aves.

N. J., Seaside Heights — Dec. 24, by Mayor and Boro Council, Boro Hall, M. A. Tindall, clk., 7.6 mi. 8- to 15-in. sanitary and 1.8 mi. 10- to 15-in. storm water sewers in various streets. H. M. Herbert, boro engr. W. H. Boardman, 426 Walnut St., Phila., Pa., associated engr.; adv. E. N.-R. Dec. 8. Noted Nov. 10.

Md., Baltimore—Dec. 14, by Bd. Awards, sanitary sewers and storm drains in Sewer Dist. 34, Storm Water Contr. 95. M. J. Ruark, 311 Courtland St., sewerage engr.

O., Akron—Dec. 16, by W. F. Peters, dir. Pub. Serv., 3,130 ft. 30- to 66-in. brick or segmental block sewer in Mull Ave. $51,900. Former contract rescinded. J. E. Root, Municipal Bldg., engr.

O., Cleveland—Dec. 14, by Bd. Comrs. Cuyahoga Co., 18,000 ft. 8- to 30-in. reinforced con., vitr. clay or segmental block sewer in State Rd.; and 8,200 ft. 12- to 36-in. concrete or segmental block sewer in Bway. F. Williams, Court House, engr.

Ind., Peru—Dec. 13, by Common Council, trunk sewer in Cass St., Impvt. Resolution 9. L. E. Roberts, city engr.

Mich., Grosse Ile—Dec. 16, by G. Dingman, drain comr. Wayne Co., County Bldg., Detroit, 10,435 ft. 12- to 30-in. sewer, 29 manholes, 1 diversion chamber, septic tank, 11 catchbasins and head wall in Church St. and Meridan Rd., Grosse Ile Twp., here. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Tex., Alamo Heights—Taking bids approximately 10 mi. sewers and laterals in various streets. $150,000. S. F. Crecelius, 201 Torcido Dr., San Antonio, engr. Noted May 19.

Contracts Awarded

N. Y., Hempstead—Village, 70,000 ft. sewers in various streets, to E. B. Edgar, 166 North Franklin St., $261,832.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Arlington Ave., to Coddington Ave. Contg. Co., 2883 Coddington Ave., $4,994; Whitlock Ave., to Slack & Slack Corp., 134 Westchester Sq., $11,017; and in Ma e Ave., to F. Pestone, 1657 Colden Ave., $6,947. Grand total $22,958.

D. C., Wash.—District Comrs., District Bldg., to M. Cain Co., Wash., D. C., sewer in Minnesota Ave. and 19th St. $27,765, South Dakota Ave. and 22nd St. N.E. $15,563, and Anacostia Rd. N.E., $2,177; to G. B. McMullin Co., 1296 Upshur St. N.W., in Michigan Ave. and 13th St., N.E. $15,027, Michigan Ave. and Shepherd St. N.E. $8,062, 27th St. N.W. $3,558, Longfellow St. N.W. $1,778, 28th St. $1,630, Veazey St. N.W. $1,511; to McCandlish Co. 1215 Howard Ave., 30th St. and Central Ave. $2,322. Grand total $79,404. Noted Nov. 17.

Md., Baltimore — Bd. Awards, sanitary sewers and storm drains in Dist. J-7, Sanitary Contr. 246, to P. Marocco, 3700 Forrest Park Ave., $67,834. Noted Nov. 17.

N. C., Durham—Sewage disposal plant, incl. sludge digesters, trickling filters, incinerators, etc. on Third Fork Creek, to McClellan Constr. Co., Charlotte, $165,000; also 5⅓ mi. 10- to 18-in. outfall line, to Conard Constr. Co. $46,718, sewage disposal plant, to Elliott Building Co., Hickory, $25,000, c.i. pipe fittings, to Glamorgan Pipe & Fdry. Co. $7,636, valves, to Grinnell Co., North Charlotte St., Charlotte $558, reinforcing, to Knoxville Iron Co., Lonsdale Ave., Knoxville, Tenn. $1,404, centrifugal pump, to Morris Machine Wks., Realty Bldg., Charlotte $736, and terra cotta pipe, to Columbia Clay Wks., Columbia, S. C. $16,776, all forgoing on New Hope Creek. Grand total $63,828.

O., Bay (br. Cleveland)—Village, to George & Ameen Co., Erie Bldg., Cleveland, sewer in East Oviatt Rd., $7,477; to Sheets & Kunkle Co., Columbus, concrete sewer in Glen Park Rd., $20,533; to Sprague & Burkhardt, 11811 Browning Ave., Cleveland, sewer in Maple Dr. $3,954, and Electric Dr. $5,353, also water-main in Maple Dr. $1,985 and to Kassouff & Co., 2600 Althan Ave., Cleveland, in East Oviatt Rd. $4,498, and Canterbury Rd. $8,007. Grand total $51,807.

O., Geneva-on-the-Lake (Summer P. O.)—Sewers in various streets, to Curro & Whittaker, Engineers Bldg., Cleveland, $95,268, sewage treatment plant, to Freeman & Jones, Inc., 5716 Euclid Ave., Cleveland, $42,960; and outfall sewer, to Amer. Constr. Co., Marion Bldg., Cleveland, $24,625. Grand total $162,853.

O., Lyndhurst (br. Cleveland) — Sewer, etc., in Green Rd., to S. N. Khury, 650 East 91st St., Cleveland, $33,012.

Mich., Halfway—A. J. Wendt, village clk., 27,595 ft. 12- to 72-in. concrete sewers, 222 manholes, 400 catch basins in Sewer Dist. 5, to Waterway Constr. Co., 516 Transportation Bldg., Detroit, $302,270.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, tile sewers with brick manholes and brick catch-basins in portions South Green St., to F. A. Coda, 2710 South Wells St., West 96th St., to A. Scully, 5467 Kamerling St., Sacramento Ave., to O. Scully, 7658 Loflin Ave., West 81st Pl., South Kilbourne and South Talman Aves., to G. Barry, Chicago, South Kilpatrick Ave., to G. Anderson, Chicago, and in Green Bay Ave., to J. Tiritilli, 732 South Ashland Ave.; drains in portions South Keating, Hermosa, Homewood North Sacramento, North Francisco, North Kilpatrick, North Keating, Peterson and Lamont Aves., West 71st, North Richmond, and North Mozart Sts., to N. Ranieri, 5036 Montana Ave., South Green and South Peoria Sts., Ellis, Dobson, Greenwood and University Aves., to M. Murphy, 5854 South Michigan Ave., North Troy St., North Albany and North Sacramento Aves., to Angelo Scully, 4504 Wrightwood Ave., and in Lunt, Greenleaf and Estes Aves., to A. Santucci, 916 South Ashland Blvd.

Ill., Madison—Complete sewerage system in Newport Sewer Dist., to J. Krill, Granite City. Engrs. est. $25,000.

Mo., St. Joseph—For 18- to 24-in. sewers in 24th, Felix, 25th and Locust Sts., to O. H. Schmidt, 1st Natl. Bank Bldg., $27,947. Noted Nov. 3.

Tex., Corpus Christi—See "Streets and Roads."

Tex., Spearman — City, c/o Secretary, sewerage system and disposal plant, to Northwestern Eng. Co., Casper, Wyo., approximately $50,000. Noted Sept. 29.

Wash., Yakima—Unit 2, sewage disposal plant, to Standard Asphalt Paving Co., North 522 Cedar St., Spokane, $35,479.

Waste Disposal

Proposed Work

N. Y., Troy—Bd. Contr. & Supply, City Hall, returned bids unopened incinerator plant. Work held up by injunction until spring. Noted Oct. 6.

O., Cleveland—City, W. R. Hopkins, city mgr., having plans prepared by C. D. Bartlett & Snow Co., 6200 Harvard Ave., 1, 2 and 3 story, garbage reduction plant, brick, steel and concrete, Cuyahoga Valley. $900,000.

Ky., Ashland—Voted $65,000 bonds, incinerator.

Bridges

Proposed Work

New York and Vermont — Lake Champlain Bridge Comn., N. Y. Ferris, chn., Ticonderoga, making plans 6 span 2,220 ft. steel bridge on concrete pier over Lake Champlain. $900,000. Fay, Spofford & Thorndike, 44 School St., Boston, Mass., engrs. Noted Mar. 20, 1924.

Tenn., Perryville—State Dept. Highways & Pub. Wks., Nashville, takes bids in January, rein.-con. and steel bridge over Tennessee River, Perry Co., near here. $900,000. C. N. Bass, highway comr. Noted Oct. 27 under "Tennessee."

Illinois and Kentucky—E. M. Elliott & associates, 360 North Michigan Ave., Chicago, Ill., making preliminary plans rein.-con. and steel bridge over Ohio River connecting Illinois Highway 2 and Kentucky Highway 147. $2,500,000. Private plans.

Kan., Wichita—See "Streets and Roads."

Neb., Alda—Comrs. Hall Co., J. E. Lyle, clk., Grand Island, plans concrete and steel bridge over Platte River, south of here. $80,000.

Mo., St. Louis—Syndicate forming, c/o S. Flannagan, pres., Carondelet Impvt. Assn., 506 Olive St., making preliminary plans rein.-con. and steel combination railroad, vehicular and pedestrian bridge over Mississippi River. $3,000,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans replacing present bridge with rein.-con. and steel viaduct over railroad tracks in Mill Creek Valley between Adams and Papin Sts. $500,000. L. R. Bowen, 301 City Hall, engr.

Tex., Dallas—See "Streets and Roads."

Ont., Sarnia — Sarnia, Ont., and Port Huron, Mich., making preliminary plans suspension span bridge over St. Clair River and Sarnia Bay connecting Sarnia, Ont., with Port Huron, Mich. $3,500,000. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs. Noted Nov. 24.

Bids Desired

Pa., Phila.—Dec. 14, by Dept. Pub. Wks., Bureau of Engineering, Bridge Div., replacing 2 timber bridges with 80 x 378 ft. and 60 x 380 ft. steel span bridges, each to

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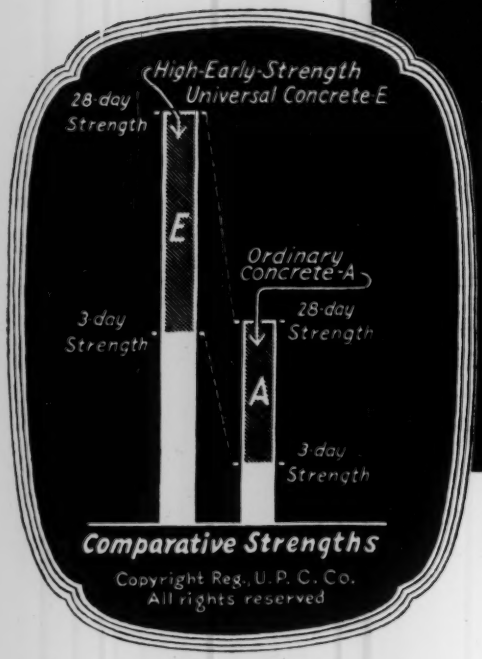

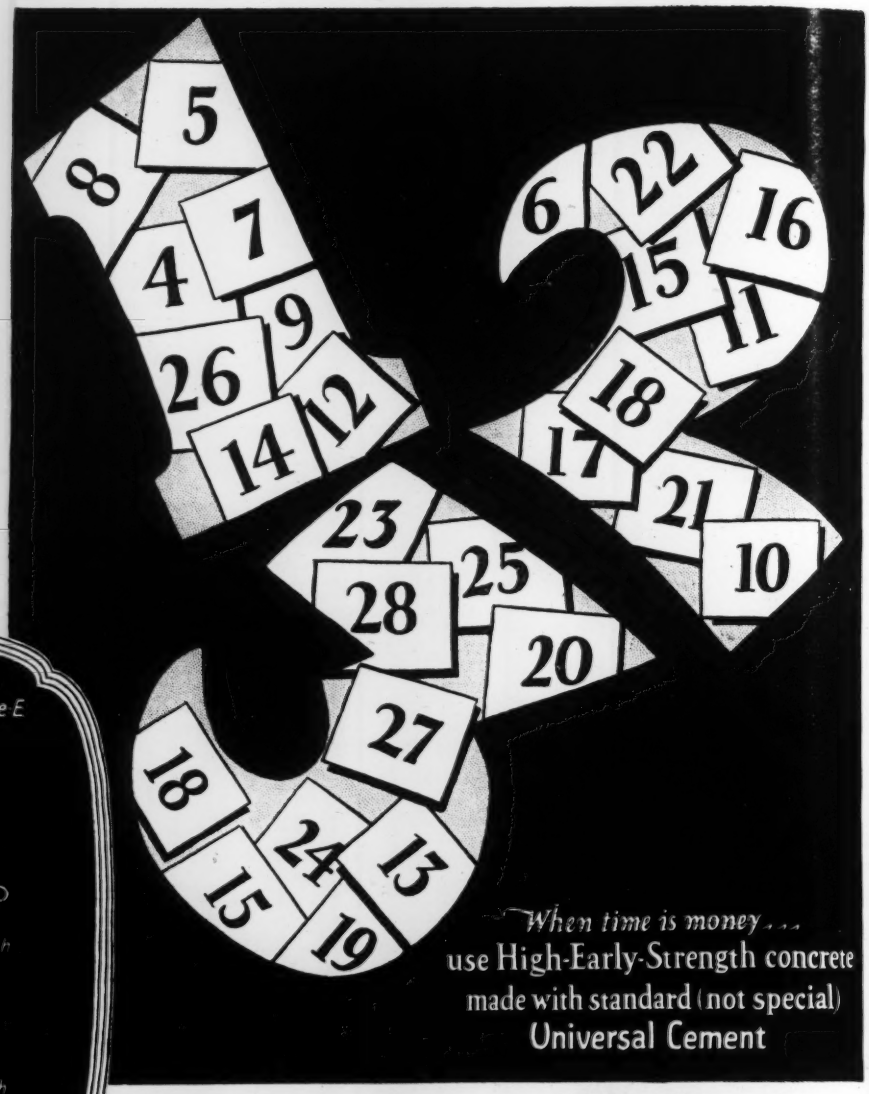

Crowding 28 Days into 3 Days

You Can Do It With High-Early-Strength Concrete

Concrete with a *3-day* strength equal to the *28-day* strength of ordinary concrete; concrete with a *28-day* strength twice that of ordinary concrete; concrete that is *permanently* better and stronger than ordinary concrete—that is *High-Early-Strength* Universal Concrete.

By using it, you crowd *28 days* into *3 days*. And as this concrete has a higher *ultimate* strength in addition to a higher *early* strength, you secure a *permanently* better and stronger job. (See diagram.)

High-Early-Strength Universal Concrete is used on all types of jobs. It is made by using fully tested methods with the usual equipment, usual labor, usual materials, and usual Universal Cement. For full details, send in the accompanying coupon.

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

High-Early-Strength Universal Concrete not only has a *3-day* strength equal to the *28-day* strength of ordinary concrete but also has a 28-day strength that is *twice* the 28-day strength of ordinary concrete, making it *permanently* better and stronger concrete. For complete details send in the coupon below.

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago.

Without obligation, please send me detailed information on methods for securing strong concrete in *3 days* with the usual materials.

Name .....

Address .....

ENR. 12-8-27

Bridges (Continued)

have 3 rein.-con. arches, etc. over Pennypack Creek, line of Rhawn St. $600,000.

Va., Danville—Jan. 3, by City Council, concrete arch bridge over Dan River, on Worsham St. C. L. Scott, Jr., city engr.; adv. E. N.-R. Dec. 8.

North Carolina—Dec. 13, by State Hy. Dept. Raleigh, rein.-con. bridges and culverts on Project 6910, Union Co. $75,000, on Project 645, Lincoln Co. $65,000, on Project 4090, Durham Co. $68,000, and on Project 224, Duplin Co. $33,500. L. R. Ames, Raleigh, engr.

Ala., Lovick—Dec. 13, by Bd. Revenue, Jefferson Co., Court House, Birmingham approximately 25,000 ft. creosoted timber viaduct over Southern Railway tracks, here. C. J. Rogers, co. highway engr.

Miss., Pascagoula — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Miss., Vicksburg—Dec. 15, by Vicksburg Bridge & Terminal Co., c/o H. Bovay, pres., 1263 Agnes Pl., Memphis, Tenn., bridge to have 420 ft. east shore span, 80 ft. channel span, and four 400 ft. spans, steel on concrete piers, over Mississippi River. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs. Noted Dec. 1.

Indiana—Dec. 21, by J. D. Williams, dir. State Hy. Comn. Indianapolis, two 33 ft. and one 70 ft. span bridge on Rd. 37-G, Lawrence Co.; 30 ft. bridge, on Rd. 37-H, Monroe Co.; 150 ft. bridge on Rd. 65-A, Posey Co.; two 92 ft. span bridge, and 2 bridges, 36 ft. span each, on Rd. 28-P, also one 28 ft. span bridge on Rd. 28-Q, Randolph Co.

Michigan—Dec. 22, at office St. Clair Co. Road Comn., Port Huron, T. L. Bridge 1 of 77-7-20, Contrs. 1 and 2, two 75 ft. span steel deck girder, 30 ft. roadway, for State Hy. Dept., Lansing. E. R. Benkert, Port Huron, resident engr.

Iowa — Dec. 13, by State Hy. Comn., Ames, one 90 x 20 ft. pony truss bridge with two 40 ft. I-beam approaches, near Kimballton, on Bridge Project 503, Audubon Co., three 160 x 20 ft. high trusses with two 40 ft. I-beam approaches near Mt. Pleasant, on Bridge Project 313, Henry Co., three 130 x 20 ft. high trusses with two 40 ft. I-beam approaches at Curtis, Federal Aid Project 296, Johnson Co., one 90 x 20 ft. pony truss bridge with two 32 ft. I-beam approaches and 16 culverts on West Liberty Co. line Rd., Bridge Project 523, and one 150 x 20 ft. high truss bridge with one 24 x 24 ft. I-beam approach, also 12 culverts on West Liberty-Nicholas Rd., Bridge Project 513, all Muscatine Co., three 40 x 24 ft. I-beam span bridge across Summit Lake, near Creston, Bridge Project 493, Union Co. F. R. White, highway comr.

Minnesota—Dec. 20, by State Hy. Comn., St. Paul, constructing Bridge 2442, five 36 ft. steel spans, etc., near Shakopee, on State Project 5-36-C; Bridge 4764, two 26 ft. steel spans, etc., near Hawley, on State Project 2-37; and Bridge 1671, three 38 ft. steel spans, etc., near Sauk Center, on State Project 4-31.

Minnesota—See "Streets and Roads."

Kan., Kingman—Dec. 20, by Clerk Kingman Co., twelve 30 ft. concrete deck girder span bridge, 26 ft. roadway, on Federal Aid Project 341-B, C. C. Martin, Kingman, co. engr. Noted Dec. 1.

Missouri—Dec. 9, by State Hy. Comn., Jefferson City, four 20 ft. I-beam, 45 ft. and four 25 ft. rein.-con. span bridges in Andrews Co.; two 8 ft. rein.-con. slab spans, etc. Barry Co.; two each 5 and 6 ft. rein.-con. slab span bridges, Bollinger Co.; four 40 ft. rein.-con. deck girder and one 90 ft. steel truss spans, Clark Co.; one 84 ft. railroad truss, two 30 ft. and one 40 ft. rein.-con. deck girder span bridges, Clay Co.; one 25 ft., one 30 ft. and two 40 ft. I-beam spans, etc., Dunklin Co.; two 5, 8 and 12 ft. rein.-con. slab, three 30 ft. and four 50 ft. rein.-con. desk girder spans, Greene Co.; six 50 ft. and two 35 ft. rein.-con. deck girder and four 20 ft. rein.-con. slab spans, etc. St. Clair Co. T. H. Cutler, ch. engr. Noted Nov. 24.

Tex., Graham — Dec. 19, by Young Co., c/o W. F. Parsley, judge, one 140 ft. riveted steel span and 260 ft. creosoted timber approaches over Clear Fork Brazos River. $25,000. G. A. Johnson, Graham, engr. Noted Dec. 1.

Colorado—See "Streets and Roads."

California—Dec. 19, by State Hy. Comn., Sacramento, widening six 26- to 30 ft. concrete bridges, 24 ft. wide to 30 ft. roadway at points between Turlock and north boundary, also extending 6 corrugated metal siphons with concrete headwalls, and pipe culvert, all in Stanislaus Co. R. M Morton, Strub Bldg., Sacramento, engr.

Contracts Awarded

Rhode Island—Mt. Hope Bay Bridge Co., c/o W. R. Compton, 44 Wall St., New York City, substructure 1,200 ft. span suspension bridge, 5,000 ft. long, concrete, steel wire cables, over Mt. Hope Bay between Bristol and Portsmouth, here, to Foundation Co., 120 Liberty St., New York City; and super-structure, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa. Noted Nov. 10.

N. Y., Long Island City—Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, New York City, bridge over roadways and paths at Kissena Park, Queens Boro, to Connor Bros., 629 Albany Ave., Brooklyn, $10,820. Noted Nov. 10.

La., Bastrop—See "Streets and Roads."

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, 30 ft. span concrete girder bridge over Salt Fork Sect. "B-2" Cambridge-Steubenville Rd., Guernsey Co., to G. R. Stinchcomb, 1191 Oak St., Columbus, $9,323; also 126 ft. steel span bridge over Richfork Creek on Sects. "K" and "L" Woodsfield-Marietta Rd., Monroe Co., to McDonald Constr. Co., Norwalk, $41,916.

O., Cleveland—Cleveland Union Terminal Co., Marshall Bldg., fabricating and erecting approximately 18,000 tons steel for super-structure bridge over Cuyahoga Valley steel to Amer. Bridge Co., Frick Bldg., Pittsburgh, Pa. Noted Nov. 24.

Kan., Ottawa — Franklin Co., one 80 ft. span steel bridge, 20 ft. on Sect. A. Project 143, to Pioneer Constr. Co., 270 Grover Bldg., Kansas City, Mo., $9,388. Noted Nov. 10 under "Streets and Roads."

Kan., Topeka—See "Streets and Roads."

Okla., Lovell—Logan Co. (Guthrie), 1 span 108 ft. steel truss bridge on piers, here, to Boardman & Co., Maple St., Oklahoma City, $23,461. Engrs. est. $25,000.

Oregon—State Hy. Comn., Salem, bridge on Project 132-A, Clackamas Co., to Rigdon Bros., Woodburn, $29,775.

Ont., Ottawa — Secretary Federal Dist. Comn., 53 Queen St., steel superstructure bridge over Ottawa River, to Dominion Bridge Co. Ltd., 51 Sparks St., $215,600. Noted Nov. 3.

Dams

Proposed Work

Mich., Allegan — Plans rein.-con. power dam across Kalamazoo River. $50,000. Ayers, Lewis, Norris & May, Cornwall Bldg., Ann Arbor, engrs.

Bids Received

N. Y., Hadley—Bd. Hudson River Regulating Dist., 44 Howard St., Albany, Dec. 5, Conklingville Dam, Contr. 4, here, from S. J. Groves & Sons, Inc., Drake Blk., Ticonderoga, $1,307,086. Noted Nov. 24.

Railways

Proposed Work

Michigan—Grand Trunk Ry., Detroit, J. A. Heaman, ch. engr., making plans classification yards, engine house and car repairing plant, also water and coaling stations, at Royal Oak.

Quebec—Provincial Govt., Quebec, appropriated $500,000 towards constructing Lake St. John Ry., 32 mi. St. Felicien to Mistassnie, and 75 mi. between Mistassnie and Herbertville. Noted Feb. 10.

Bids Desired

Missouri—See "Contracts Awarded."

Contracts Awarded

Alabama—St. Louis-San Francisco Ry. Co., F. G. Jonah, ch. engr., St. Louis, Mo., grading, laying crossties, tracks, etc., from Aliceville to Demopolis, here, to C. G. Kershaw & Co., Woodward Bldg., Birmingham, $200,000.

Missouri—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., St. Louis, will improve terminal and yard, also install 100,000 gal. steel tank, etc., in Poplar Bluffs, by day labor. $200,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Lynn — City, Chamber of Commerce, voted $300,000 bonds, development Lynn Harbor, in conjunction deepening channel addition of 10 ft. Engineer not selected.

N. J., Perth Amboy—Chamber of Commerce, J. M. Klein, pres., 117 Smith St., plans dredging river, erecting warehouses and piers. $1,000,000. Engineer not selected.

Texas—Mestenas Water Co., c/o S. B. Smith, pres., Frost Bldg., San Antonio, making plans and takes bids in early spring, irrigating 10,000 acres land northeast section Hidalgo Co. $175,000. Private plans.

Texas—Red Bluff Irrigation Dist., c/o Chairman, Pecos, plans creating irrigation district, 80,000 acres land in Loving, Ward and Reeves Counties. $3,000,000 (tentative). Private plans.

Bids Desired

N. Y., Brooklyn — Dec. 16, by M. Cosgrove, comr. Docks, Pier "A," Battery Pl., New York City, bulkhead wall and concrete dump, at Hamilton Ave. and Gowanus Canal, Contr. 1887, here.

Miss., Pascagoula — Dec. 15, by Bd. Supervs. Jackson Co., 2 mi. beach driveways and road protection, 86,810 cu.yd. dredged earth fill, 3,307 cu.yd. excav., 8,674 cu.yd. concrete road protection, 1,338,008 lb. reinforcing, 45,713 sq.yd. 6 and 7 in. concrete paving, 302 cu.yd. concrete in bridges, 5,450 ft. concrete curbing, etc. F. H. McGowen, Ocean Springs, engr.

Ill., Bourbon—Dec. 17, by Comrs. D. D. 3, Douglas Co., 52,485 cu.yd. excav. in main ditch and branches. Craig & Craig, Mattoon, attys.

Minn., Hallock — Dec. 12, by W. F. Davnie, aud. Kittson Co., constructing County Ditch 28, approximately 84,500 cu.yd. excav., and 615 ft. 18- to 72-in. portable culverts, etc. $16,557.

Iowa — Dec. 22, by Joint Bd. Supervs. Hardin Co. (Eldora) and Hamilton Co. (Webster City), at office L. L. Doolittle, aud. Hamilton Co., Webster City, constructing Joint Drain 118 Hardin Co. and Drain 232 Hamilton Co., 23,426 ft. 6- to 28-in. vitr. clay tile, junctions, sewer pipe and c.i. grates delivered on line of drain. E. S. Boudinot, Webster City, constr. engr.

Colorado—See "Streets and Roads."

Ark., Osceola—Dec. 13, by Comrs. Sub. Dist. 1, D. D. 8, R. E. L. Wilson, Jr., chn., 16 x 20 ft., galvanized iron pumping plant, incl. electric driven pumping machinery, concrete sluiceway, etc. Morgan Eng. Co., Goodwyn Institute Bldg., Memphis, Tenn., engrs.

Tex., San Antonio — Dec. 20, by City, subterranean channel from River to Commerce St. and Market St. to the river cutting off the bend, incl. excavating, retaining wall, etc. $70,000. S. F. Crecelius, 201 Torcido Dr., engr. Noted Oct. 13.

Contracts Awarded

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., repairing and reconstructing sea wall on Willets Point Rd., to Erection Co. of New York, 500 5th Ave., New York City, $33,939. Noted Nov. 10.

N. J., Bradley Beach — Bradley Beach Comn., 1,600 ft. bulkhead between Sylvan Lake and Boulevard, to Wooley & Howland, Long Branch, $18,400.

Ill., Owaneco—Comrs. Union D. D. 1, Christian Co., 49,519 ft. ditch work, incl. 133,536 cu.yd. excav., etc., to W. S. Hardwick, Lawrenceville. Noted Oct. 27.

Ia., Council Bluffs—Pidgeon Creek D. D., 24,000 cu.yd. excav. and 12,000 cu.yd. earth fill, to Callahan-Walker Constr. Co., 1106 1st Natl. Bank Bldg., Omaha, Neb.; also Honey Creek D. D., 6,300 cu.yd. excav., to J. R. Babbitt, Council Bluffs.

Calif., Los Angeles — Harbor Comn., dredging Naval Anchorage at Los Angeles Outer Harbor under Spec. 768, to Merritt-Chapman Scott Corp., Harbor Blvd., San Pedro, $22,990. Noted Oct. 20.

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Independent

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Streets and Roads

Proposed Work

Mass., Cambridge (Boston P. O.)—Dept. Pub. Wks., Boston, plans highway from Massachusetts Ave. running parallel Watertown branch Fitchburg Div. R.R. to Fresh Pond Parkway, here. $511,000. W. F. Williams, comr.

Mass., Quincy (Ind. br. Boston)—Plans paving various streets, $100,000 appropriated. P. J. O'Brien, city engr.

Conn., Hartford—Plans macadam paving Blue Hills, Capitol, Franklin, Maple and Retreat Aves., Elizabeth, Vine, Zion and Sigourney Sts. $630,000. R. M. Clarke, Municipal Bldg., engr.

Miss., Canton—Madison Co. making preliminary plans concrete paving, etc. portions Canton-Hinds Co. line and Flora-Hinds Co. line Rds.; graveling portions Canton-Flora Highway, Canton-Moore Ferry Rd., Canton-Camden Rd. via Sharon, Camden-Canton-Pickus Highway, and Vinson Rd. $2,000,000.

Miss., Fayette — Jefferson Co. voted $100,000 bonds, grading, etc. various roads.

Miss., Pontotoc — Pontotoc Co. making preliminary plans completing Bank Head Highway; graveling Pontotoc - Houston - Chickasaw Co. line Highway, and Cherry Creek Rd.; also surfacing Pontotoc-Okalona Highway.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 20 mi. Trenton-Alamo Rd., Gibson and Crockett Counties. C. N. Bass, highway comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, soon takes bids high type (probably asphalt on concrete) paving 5 mi. State Road 1, Knox Co.; and takes bids about Dec. 15, concrete paving 10 mi. Dyersburg-Heloise Rd., Dyer Co., and grading 3 mi. State Road 2, McMinn Co. C. N. Bass, highway comr.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids after Jan. 1, grading, curbing, walks and vitr. brick paving 8,215 sq.yd. Noble Ave. $52,600. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Stark Co. plans improving 1.8 mi. Brookside Rd. $35,000-$40,000. A. M. Wise, Court House, engr.

Ill., East St. Louis — Soon takes bids grading, 8 in. concrete paving, etc. 15,600 sq.yd. Central Ave. Paving Dist. $72,300. W. McK. Brown, City Hall, engr.

Ia., Marengo—Iowa Co. voted $900,000 bonds, 6 in. concrete paving Projects 32 and 149; also graveling 28 mi. primary road system. W. W. Thorn, Marengo, co. engr.

Kan., Lincoln—Auditor Lincoln Co. takes bids about Jan. 20, grading and bridging 6.846 mi. Rd. K-18, Federal Aid Project 362-E, $55,000. A. J. Francis, Jr., Lincoln, co. engr. Noted Nov. 24.

Kan., Ottawa—J. R. Finley, clk. Franklin Co., rejected bids Nov. 23, grading, etc. 3.976 mi. Sect. A., and 2.819 mi. Sect. B. Project 143, 28 ft. Noted Nov. 10.

Kan., Wichita — Sedgwick Co. making preliminary plans grading and concrete paving ½ mi., also 806 ft. rein.-con., and steel bridge, 30 ft., South Lawrence Ave. $150,000. G. H. Bradford, Court House, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, plans widening and paving Theresa Ave. between Market St. and Lindell Blvd., and Theresa Ave. between Lindell Blvd. and Bell Ave.; also plans later opening Francis St. between Cass Ave. and Magazine St. to connect with Coleman St. $700,000. A. Brooks, City Hall, dir. Streets & Sewers.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, made revised plans alternate types paving, etc., Washington and Delmar Blvds., Berthold, Parker, Wren and Macklind Aves., McCausland and DeGeverville Sts. W. W. Horner, 300 City Hall, engr.

Arkansas—State Hy. Dept., Little Rock, takes bids about Dec. 15, grading, etc. 10.5 mi. Highway 45, Sect. 4, Washington Co., and 2.5 mi. Highway 116, Sect. 1, Logan Co.; also grading and graveling, etc. 12 mi. Highway 7, Sect. 5, Hot Springs Co. C. S. Christian, c/o owner, engr.

Tex., Dallas—Dallas Co. making plans grading, bridging and concrete paving 20.3 mi. Highway 114, 20 ft. $1,345,249. R. H. Clinger, Dallas, co. engr.

Tex., Galveston—See "Unclassified."

Arizona—State Hy. Comn., Phoenix, rejected bids Nov. 21, grading and 2 in. asphaltic concrete or bitulithic on 4 in. bituminous paving 51,061 sq.yd. Prescott-Jerome Highway, Federal Aid Project 36-A, reopened. W. C. Lefebvre, state highway engr. Noted Nov. 17.

California—Ventura Co. (Ventura) Kern Co. (Bakersfield) and Santa Barbara Co. (Santa Barbara) soon take bids grading and bridging, etc., 74 mi. Tri-County Highway from west side Kern Co., connecting Maricopa, Kern Co. and Carpinteria, Santa Barbara Co., 20 ft. $1,195,800. Superior Court approved intention above counties to issue bonds in excess $500,000 to finance their portion of cost.

Calif., San Diego—Common Council plans grading, curbing, 6 in. asphaltic concrete paving, etc. 156,908 sq.ft. and 6 in. concrete paving, etc. 272,423 sq.ft. Boundary and 33rd Sts., etc. H. W. Jorgensen, city engr.

Calif., San Francisco—Made plans grading, bridging, sewers, etc., in Bernal Cut. $600,000. M. M. O'Shaughnessy, city engr.

Bids Desired

N. Y., Long Island City—Dec. 15, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, repairing bulkhead and paving intersection Beach Channel Dr. and Beach 95th St.; grading and sheet asphalt on concrete paving Queens Blvd., Abingdon Rd., Graham, 69th (Fisk), and Aves., Bleecker, 124th, 96th, 104th (47th), 69th, and 107th Sts., etc.

N. Y., New York—Dec. 9, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and sheet asphalt on concrete repaving 96th and West 204th Sts.

N. Y., New York—Dec. 14, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, sidewalks and sheet asphalt on concrete paving West 135th and Ellwood Sts.

N. Y., New York—Dec. 16, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, sidewalks, etc. on East 229th and West 238th Sts., Arnow, Fenton, Jarvis, Wellman, Dudley, Morgan and Furman Aves.

Pa., Phila.—Dec. 13, by Dept. Pub. Wks., Bureau of Highways, Schedule A, grading 610,000 cu.yd. various streets; Schedule B, asphalt repaving (assessment work), Erdrick, Pickwick, Unity, 18th and 58th Sts.; Schedule C, vitr. block paving Springer St.; Schedule D, asphalt repaving Corlies St.; Schedule E, improving 66th Ave. (country road); and Schedule F, paving and repaving certain alleys, etc. G. H. Biles, dir.

Pa., Swissvale — Dec. 13, by Boro, at office H. D. Caldwell, boro secy., grading and 7 and 8 in. rein.-con. paving, etc., 3,191 sq.yd. Coulter Way, Hays and Monroe Sts. A. Hutchinson, boro engr.

Md., Baltimore—Dec. 14, by Bd. Awards, sheet asphalt paving 13,430 sq.yd. streets listed in Contr. 444. N. L. Smith, City Hall, highway engr.

North Carolina—Dec. 13, by State Hy. Comn., Raleigh, clearing, grading, etc 14.58 mi. Project 6910, Union Co. $90,653, 4.19 mi. Project 917, Cherokee Co. $28,600, 4.15 mi. Project 948, Haywood Co. $38,493, 18.26 mi. Project 224, Duplin Co. $102,229, 10.06 mi. Project 4090, Durham Co. $84,-285, 2.61 mi. Project 4440, Orange Co. $25,-108, and 5.26 mi. Project 645, Lincoln Co. $43,200; grading and concrete or asphalt paving 9.66 mi. Project 8260, Cleveland Co. $209,186, 7.91 mi. Project 3930, Robeson Co. $131,500, 6.43 mi. Project 4441, Lee Co. $151,250, 10.38 mi. Project 6371, Iredell Co. $237,855, 9.27 mi. Project 551, Hoke Co. $151,475, and 4.66 mi. Project 4720, Vance Co. $109,500. L. R. Ames, Raleigh, engr. Noted Nov. 24.

Ga., Baxley—Dec. 20, by O. H. Lang, engr., Moultrie, curbing, guttering, walks and concrete or asphalt paving, etc. 27,134 sq.yd. various streets, here, for City.

Ala., Birmingham—Jan. 3, (extended date), by Jefferson Co. Bd. Revenue, **(P. means Project)**, 5 in. concrete paving, etc. 23,000 sq.yd. 35th Ave. N., P. 99; 5,500 sq.yd. Ketona-Huffman Rd., P. 105; 6,000 sq.yd. Huffman-Sadler Gap Rd., P. 104; 7,500 sq.yd. P. 103; 95 sq.yd. Green Springs Rd., P. 102; 63,000 sq.yd. Mt. Pinson Rd. P. 101, 54,000 sq.yd. Hueytown Loop, P. 100; 15 mi. Bankhead Highway, P. 107; and ¾ mi. Wenona Rd., P. 106, all 18 ft. wide. C. J. Rogers, Birmingham, co. engr.

Ala., Birmingham — Jan. 5, by City Comn., 2½ in. asphalt on 6 in. concrete paving 7 blocks 25th St. N., 40 ft., $46,400; sheet asphalt, 1 in. binder course and 1½ in. wearing surface on 6 in. concrete paving 5 blocks 1st Ave. N., 40 ft., $31,600; 2 in. asphalt on 6 in. concrete paving, etc., 6 blocks 21st Ave. N., 40 ft., $32,520; curbing, guttering, and 2 in. asphalt on 6 in. concrete paving, etc., 2 blocks Ave. Z, Ensley, 30 ft., $12,560; 6 in. concrete paving 2 blocks 9th Court, Alley S., 12 ft., $1,570, 2 blocks Aberdeen Rd. Alley, 15 ft., $1,980, and 3 blocks 46th Alley S., 14 ft., $2,150; curbing, guttering, walks and 6 in. concrete paving 3 blocks 36th Ave. N., 30 ft., $15,900, and 1 block 48th St. N., 40 ft., $6,850; 2 in. asphalt on 5 in. concrete paving 1 block Division Ave., $5,125, and 3 blocks 24th St. N., $18,000, both 30 ft. A. J. Hawkins, city engr.

Miss., Greenwood—Dec. 29, by Supervs. Leflore Co., graveling 4 mi. Federal Aid Project 195-B between Ittabena and Greenwood. H. C. Dietzer, Jackson, state highway engr.

Miss., Meridian — Dec. 21, by Supervs. Lauderdale Co., improving Meridian-Louisville Rd., in Beat Three 9,200 cu.yd. gravel, 50,000 cu.yd. excav., 239,000 units overhaul, etc., also furnishing 10,000 cu.yd. washed gravel, f.o.b. Meridian. J. T. Pinkston, Meridian, engr.

Miss., Pascagoula — See "Excavation, Drainage, Irrigation Levees. River and Harbor."

Louisiana—Dec. 20, by State Hy. Comn., Baton Rouge, graveling 7.023 mi. Winnfield-Colfax Rd., Project 139B, Winn Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, state engr.

Louisiana—Jan. 3, by State Hy. Comn., Baton Rouge, grading and concrete or warrenite bitulithic paving 1.575 mi. State Project 612A, Jefferson Co. N. W. Bowden, Reymond Bldg., Baton Rouge, state engr.

Louisiana—Jan. 12, by State Hy. Comn., Baton Rouge, graveling 7.086 mi. Jena-Nebo-Rogers Highway, State Project 556-B, LaSalle Co. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Tennessee—Dec. 16, by State Dept. Highways & Pub. Wks., Nashville, grading, etc. 0.189 mi. State Rd. 34, State Aid Project 324-C, Hawkins Co. C. N. Bass, highway comr.

Kentucky—Dec. 22, by State Hy. Dept., Frankfort, grading, etc. 10.5 mi. Hoods Creek Rd., State Aid Project 176-A, Boyd Co. E. N. Todd, highway engr.

Indiana—Dec. 20, by J. D. Williams, dir. State Hy. Dept., Indianapolis, concrete paving 88,326 sq.yd. F. A. 120, Sect. A. State Road 52, Rush and Franklin Counties; 80,936 sq.yd. F. A. 124, Sect. A. and 75,610 sq.yd. Sect. B. State Rd. 28, Randolph Co.; 53,116 sq.yd. F. A. 16, Sect. D. P., Warwick and Spencer Counties; 59,875 sq.yd. F. A. 111, Sect. A. and 54,-278 sq.yd. Sect. B., State Rd. 52, Franklin Co.; and 59,136 sq.yd. Sect. C., Franklin and Dearborn Counties. W. J. Titus State House, Indianapolis, engr.

Ind., Crown Point—Dec. 19, by Comrs. Lake Co., grading and graveling R. H. Harrington et al. Rd. $40,000. W. E. Whitaker, Crown Point, aud.

Ind., Fort Wayne—Dec. 22, by Comrs. Allen Co., at office J. H. Johnson, aud., grading and graveling 1.019 mi. Van Houten Rd., Lake Twp., $16,000; also 1.18 mi. Elmhurst Rd., Wayne Twp., $13,000.

Ind., Terre Haute—Dec. 16, by Comrs. Vigo Co., grading, etc., 2 mi. Sect. 2, Burton Cassaday County Unit Rd. $107,059. J. Dreher, aud.

Iowa — Dec. 13, by State Hy. Comn., Ames., grading, paving, etc., 195,500 sq.yd. Road 141, Project 515, Monona Co., incl. 87 intakes, 26 flumes, etc.; 60,327 sq.yd. Road 32, Project 523, Muscatine Co.; 14 flumes, 14 intakes, etc.; 130,220 sq.yd. Road 141, Project F-2, Woodbury Co., 30 intakes, 33 flumes, etc.; 115,968 sq.yd. Road 30, Project 563, Harrison Co., 18 intakes, 9 flumes, etc.; 15,371 sq.yd. Road 6, Project 535-B, Appanoose Co., 5 intakes, 1 flume, etc.; 229,109 sq.yd. Road 16, Project 111, Kossuth Co., 4 intakes, 17 flumes, etc., also river bank protection involving 22 Woods Bros. steel current retards in place. R. F. White, highway comr.

Minnesota—Dec. 20, by State Hy. Comn., St. Paul, **(S.P. means State Project and F.A.P., Federal Aid Project)**, grading 340,-000 cu.yd. S.P. 2-37, and 600,000 cu.yd. S.P. 2-38, F.A.P. 389, 340,000 cu.yd. S.P. 10-54, Sect. 3, F.A.P. 411, and 170,600 cu.yd. S.P. 11-32, F.A.P. 400; also grading and constructing Bridge 4771, 50 ft. long, on 390,000 cu.yd. S.P. 5-32 Sect. 1, F.A.P. 340. Eng. Dept. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Minn., St. Paul—Dec. 27, by G. J. Ries, aud. Ramsey Co., grading and rein.-con. paving, etc., 100,000 sq.yd. Projects 28-88, A, B and C, South Robert St. between Minnesota Trunk Highway 1 and Arion St. $300,000. P. N. Coates, Guardian Life Bldg., engrs.

Kan., Hiawatha — Dec. 22, by Clerk Brown Co., sand gravel surfacing 12.8 mi. Project 180, 26 ft. S. K. McCrary, Hiawatha, co. engr.

Kan., La Crosse — See "Contracts Awarded."

Kan., Seneca—Dec. 23, by Clerk Nemaha Co., sand gravel surfacing 15.568 mi. Project 181, 26 ft. L. P. Price, Seneca, co. engr.

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Streets and Roads (Continued)

Missouri—Dec. 9, by State Hy. Comn., Jefferson City, grading approximately 40 mi. roads in Barry, Bollinger, Clay, Andrews, Nodaway, Clark and Greene Counties; also concrete paving approximately 36 mi. roads in Dunklin, Livingston, Monroe, St. Clair, Clark, Linn and Worth Counties; and 22,419 ft. guard rail in Boone and Franklin Counties. T. H. Cutler, ch. engr. Noted Nov. 24.

Tex., Amarillo—Taking bids two course penetration on gravel paving 12 blocks various residential streets. $45,000. H. B. Jones, Amarillo, engr.

Tex., Haskell—Dec. 15, by M. H. Post, city clerk, paving 30,000 sq.yd. various streets. J. Rady, city engr.

Tex., Houston—Dec. 19, by H. L. Washburn, aud. Harris Co., asphalt surfacing 19.75 mi. West Montgomery Rd., Precinct 4, and grading, etc., Lawndale Ave. from Brady Bayou to Harrisburg. Howe & Wise, Court House, engrs. Noted Nov. 17.

Okla., Norman—Dec. 13, by O. Ogborn, city clk., grading and 6 in. concrete paving 8,426 sq.yd. Dakota St. $28,270. F. Cobb, Norman, engr.

Colorado—Dec. 14, by State Hy. Dept., Denver, **(F.A.P. means Federal Aid Project)** gravel surfacing 3.201 mi. Highway 123, F.A.P. 144-B, Constr. Div. 1, Larimer Co.; grading 3.444 mi. Highway 8, F.A.P. 279-F, Park Co. and 0.921 mi. F.A.P. 287-D, Constr. Div. 1, Weld Co., bituminous on concrete or plain concrete paving 2.765 mi. Highway 1, F.A.P. 2-R, Paving Div. 6, Las Animas Co.; also concrete retaining wall at Pine Creek Bridge, approximately 5 mi. north of Colorado Springs on Highway 1, F.A.P. 116-B, Constr. Div. 2, and 100 ft. span steel bridge over Conejos River, east of Romeo, on Project 664. L. D. Blauvelt, State Office Bldg., Denver, engr.

Washington — Jan. 10, by State Hy. Comn., Olympia, grading, etc., 283,000 cu. yd. State Rd. 2, King Co. S. J. Humes, state highway engr.

Calif., El Centro—J. C. Neale, city clk., taking bids grading, curbing, guttering, walks and 5 in. asphaltic concrete paving, etc., 93,327 sq.ft. portion Olive Ave.; also grading, curbing, walks, 6 in. asphaltic concrete paving 63,037 sq.ft. and 5 in. asphaltic concrete paving, etc., 124,076 sq.ft. Adams and El Centro Aves., etc.

Contracts Awarded

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 11,050 ft. highway in Dover, to Greenough Constr. Co., South Acton, $73,576; and 17,000 ft. highway in Deerfield, to C. E. Horne, Millbury, $145,162, both 18 ft. wide. Noted Nov. 10.

Rhode Island — State Bd. Pub. Wks., State House, Providence, 8 in. bituminous macadam paving 2.2 mi. highway in Johnston, Contr. 2716, to Hagan & Thibodeau, Providence, $52,828, 2.2 mi. highway in Middletown, Contr. 2714, to Iaffola & Shields, Noyes Pl., Boston, Mass., $98,402, 3 mi. highway in Hopkinton, Contr. 2713, to Perini & Ampollini, Plainville, Mass., 3.4 mi. highway in Bristol and Warren, Contr. 2717, to Lawton Constr. Co., Providence $99,744, all foregoing 20 ft. wide; 4.7 mi. highway in Greenwich, Warwick and West Warwick, Contr. 2715, Federal Aid 42, 20 ft., and 8 in. rein.-con. paving 1.6 mi. highway in Cranston, Contr. 2712, Federal Aid 50, 40 ft., to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $103,233 for latter project. Noted Nov. 17.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to T. DiRoma, 33 Evelyn Pl., grading Pugsley Ave. $3,031, to I. F. Calvaluzzo, 1300 Cromwell Ave., Hobart Ave. $5,073, Barnes Ave. $6,775, and Bronxwood Ave., $7,475; to Gramaglia Bros., 48 East Kingsbridge Rd., Waring Ave. $11,939, and to M. Del Balso, 660 East 221st St., Pelham Parkway $9,431. Grand total $43,724.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading Eltingville Blvd., to J. J. O'Rourke, 239 Gordon St., $9,012. Noted Nov. 17.

Pennsylvania—State Hy. Comn., Harrisburg, rein.-con. paving, etc., 3,554 ft. Route 362, Somerset Co., to Windber Constr. Co., Windber, $26,937; and bituminous surfacing 5,829 ft. Routes 85 and 295, Erie Co., to M. A. McCormick, Erie, $32,206, both 18 ft. wide. Noted Sept. 8.

Pa., Swissvale—(Ind. br. Pittsburgh)—Grading, repaving, etc. Woodstock, Roslyn, Noble and Braddock Aves., to McCrady Bros. Co., Braddock. Engrs. est. $100,000.

Maryland — State Roads Comn., Baltimore, concrete shoulders on 1.5 mi. Contr. W-26, Washington Co., to Bester, Long Co., Hagerstown, $13,201; graveling 0.76 mi. Contr. AA-52, and 1.5 mi. Contr. AA-54, Anne Arundel Co., to G. B. Mullin Co., 1296 Upshur St. N. W., Wash., D. C., $11,832 and $12,592 respectively. Grand total $37,625. Noted Nov. 17.

Md., Baltimore—Bd. Awards, sheet asphalt paving 11,000 sq.yd. streets listed Contr. 441, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $47,000. Noted Nov. 17.

Ga., Millen—Concrete paving, etc. Cotton and Winthrop Aves., Hendricks, Grey, Daniel and Masonic Sts., to Murray Constr. Co., Holston Natl. Bank Bldg., Knoxville, Tenn., $113,000. Engrs. est. $175,000.

Alabama—State Hy. Dept., Montgomery **(e.e. means engrs. est.)**, to Nixon & Phillips, Lincoln Life Bldg., Birmingham, 5 in. concrete paving, etc. 0.9 mi. roadway from Tuskegee towards Union Springs, Macon Co. $18,210 e.e. $20,000, to Atmore Twp., Atmore, 1.52 mi. road through Atmore Twp., Escambia Co. $23,180 e.e. $24,000, both 20 ft. wide, to J. F. Pryor, Sharon, Tenn., 12.25 mi. road between Perdido Station and Bay Minette, Baldwin Co., $172,-850 e.e. $174,500, to Mobile Constr. Co., Mobile, 9 mi. road between Troy and Orion, Pike Co. $143,484 e.e. $147,000, to J. B. McCrary, Citizens & Savings Bank Bldg., Atlanta, Ga., 1 mi. road through Cullman Twp. on State Highway 7, Cullman Co. $13,462 e.e. $14,200, to Couch Constr. Co., Dothan, 5.5 mi. road from Dothan towards Ozark, Houston Co. $82,684 e.e. $85,000, to Noonan Lawrence, Pensacola, Fla., 2.001 mi. road through Brewton Twp., on Brewton-Evergreen Rd., Escambia Co. $31,867 e.e. $32,500, to R. S. Taylor, Tuscaloosa, 3.3 mi. road between Andalusia and Brewton, Covington Co. $46,445 e.e. $47,200, to Davis Constr. Co., Walton Bldg., Atlanta, Ga., 5.6 mi. road between Lanett and Fairfax, Chambers Co. $90,146 e.e. $92,500, 8.47 mi. road between Ozark and Choctawhatchee River, Dale Co. $112,931 e.e. $114,500, and 17.86 mi. road from near Prattville to Chilton Co. line, Autauga Co. $236,162 e.e. $250,000, all foregoing 18 ft. Grand total $971,421. Noted Oct. 27.

Louisiana — State Hy. Comn., Baton Rouge, grading and graveling 9.498 mi. Natchitoches-Boyce Highway, State Project 429-F and G, Natchitoches Parish, to Alexandria Constr. Co., Alexandria, $50,-682. Noted Nov. 10.

La., Bastrop—J. L. White, engr. Morehouse Parish, grading, bridging and graveling 6 mi. Spyker Perry and Bonners Ferry Rd., to Grubbs Co., Bastrop; pipe culverts, to Sherman Concrete Pipe Co., Shreveport; washed gravel, to Gifford-Hill Gravel Co., Forest Hill; and lumber for bridges, to Amer. Creosote Wks., 1305 Dublin St., New Orleans. Total $40,200. Noted Oct. 27.

La., Bastrop — Grading and concrete paving 4,370 ft. Odom, Jefferson and Pine Sts., to Thibodeaux & Harrison, and R. L. Young, Bastrop, $55,000.

Tenn., Dyersburg—Dyer Co. concrete paving portions Chic-Midway Rd. and Bogota-Miston Rd., to Forcum-James Constr. Co., Dyersburg; and portions Miston-Tennemo Rd. and Booths Point-Mississippi River Rd., to W. R. Aldrich Constr. Co., Dyersburg. Engrs. est. to exceed $200,000.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, grading and concrete paving, etc. 5.321 mi. Sect. "S" Delphos-Upper Sandusky Rd., Allen Co., to L. L. Clymer, Bluffton $126,144, and 6.748 mi. Sects. "A" and "B" Troy-Lodlow Falls Rd., Miami Co., to Davis & Davenport, Spencerville $191,829; grading and bituminous macadam paving, etc. 2.114 mi. Sect. "T-1" Cincinnati-Zanesville Rd., Fayette Co., to Hyer Constr. Co., Washington C. H., $37,996; grading and waterbound macadam paving, etc. 2.993 mi. Sect. "K" Chagrin Falls-Greenville Rd., Geauga Co., to H. L. Sharp & Co., Parkman, $64,-906; grading and 3 in. brick paving, etc. 2 mi. Sects. "C-2" and "A" Portsmouth-Oak Hill Rd., Scioto Co., to S. Monroe Sons Co., Portsmouth, $87,988; also grading, etc. 2.872 mi. Sect. "B-2" Cambridge-Steubenville Rd., Guernsey Co., to G. R. Stinchcorb, 1191 Oak St., Columbus $24,994, 1.08 mi. Sect. "E" McConnelsville Cambridge Rd., Morgan Co., to D. I. Angelo, Caldwell $27,005, and 1.089 mi. Sects. "A," "B" and "C" Ohio River Rd., Washington Co., to B. Francis, East Palestine $22,765. Grand total $583,627. Noted Nov. 10.

O., Cincinnati—Hamilton Co., resurfacing Martin Rd. from city corporation line to Cincinnati-Zanesville Rd., to J. S. Sloane, 2312 Mound Ae., Norwood, $43,454. Engrs. est. $55,968.

O., Cleveland—Cuyahoga Co., grading, etc. 60,000 cu.yd. Harms-Harris Rd., to F. G. Smith, Mayfield Rd., South Euclid, $24,397.

O., Cleveland — Cuyahoga Co., paving South Woodland Rd., to Cleveland Trinidad Paving Co., Western Reserve Bldg., $114,000.

Michigan—At office Division Engineer, Escanaba, grading, etc. 3.292 mi. Forest Contr. 1, Menominee Co., to Benzie & Son, Norway, for State Hy. Dept., Lansing, $44,498. Noted Oct. 13.

Michigan—A. R. Schaefer, resident engr., Newberry, Oct. 20, concrete paving 2.552 mi. MO32-27, Contr. 1, 20 ft., Huron Co., to R. R. Scott Co., Saginaw, for State Hy. Dept., Lansing, $86,382. Noted Oct. 13.

Ia., Ottumwa — Auditor Wapello Co., grading and paving 11.6 mi. U. S. Road 34 Project P-559, to C. H. Atkinson Paving Co., Watertown, S. D., $317,600.

Kan., Coldwater—Comanche Co., 2.6 mi. grading 1.348 mi. culverts also four 40 ft. deck girder span bridge, 20 ft. over Shiff Creek near Wilmore, on Rd. K 12, Project 118-A, to Campbell Bros., 608 Manufacturers Exch., Kansas City, Mo., $29,3[illegible].

Kan., Fredonia—Wilson Co., will gravel and chats surface 7.934 mi. various roads, 18 ft., by own forces. E. C. Baity, County House, engr. Noted Nov. 17.

Kan., La Crosse — Rush Co. will grade, etc. 10 mi. Rd. K-4, 28 ft., by force account. H. R. Miller, Court House, engr. Noted Nov. 17.

Kan., Topeka—Shawnee Co., grading and concrete paving 0.97 mi. Wakarusa Spur Rd., also one 30 ft. and two 25 ft. deck girder span bridge, 20 ft., to M. W. Watson, 501 Mulvane Bldg., $39,655 and $[illegible] respectively.

Arkansas—State Hy. Dept., Little Rock, to W. L. Davis & Co., Kansas City, Mo., graveling 5 mi. Highway 64, Sect. 7, Conway Co. $17,245, and to Forcum-James Constr. Co., Dyersburg, Tenn., 6 mi. Federal Aid Project 192-C, Phillips Co. $14,-475, grading, etc. 12.4 mi. Highway 13, Sect. 6, Lincoln Co. $65,034, 8 mi. Job 1036, Highway 14, Sect. 13 $115,081, and 8 mi. Job 1043, Highway 14, Sect. 13 $74,743, both Poinsett Counties, to Kochtitzky Bros., England, 8.7 mi. Highway 114, Sect. 1, Lincoln Co. $75,447, and 6 mi. Highway 15, Sects. 8 and 9, Lonoke and Jefferson Counties $67,007, to F. E. Wright, Gurdon, 10 mi. Highway 5, Sects. 4 and 5, Howard and Hempstead Counties $20,562, to Interstate Constr. Co., Paris, Tex., 13 mi. Highway 10, Sect. 1, Sebastian Co. $75,980, and 12.7 mi. Highway 8, Sect. 1, Polk Co. $126,-065, to C. N. Green & Son, Fort Smith, 9 mi. Highway 22, Sect. 2, Franklin Co. $14,-245, to Ware Constr. Co., Little Rock, 7 mi. Highway 11, Sect. 14, Independence Co. $69,662, to J. C. Elliott Co., Leola, 7 mi. Highway 6, Sect. 2, Grant Co. $44,581, to Atkinson Bros., Pine Bluff, 9.5 mi. Highway 167, Sects. 2 and 3, Union and Ouachita Counties $69,416, and 5 mi. Highway 15, Sect. 1, Union Co. $33,233, to Cook & Ransom, Ottawa, Kan., 14 mi. Highway 22, Sect. 4, Logan Co. $108,763, to B. F. Brooks Constr. Co., Slaughter Bldg., Dallas, Tex., 6 mi. Highway 105, Sect. 1 $46,888, to E. Euler, Mansfield, Mo., 15.5 mi. Highway 5, Sect. 9, Baxter Co. $84,902, to C. M. Greene, Lowell, 8.4 mi. Highway 16, Sect. 4, Madison Co. $72,076, and to F. D. Harvey & Co., Jonesboro, La., 2.6 mi. Highway 1, Sect. 21, Clay Co. $35,881; also to Rowland & Rickard, Pine Bluff, grading and concrete paving ½ mi. Highway 3, Sect. 2, Columbia Co. $14,835. Grand total $1,270,121.

Tex., Bay City—Comrs. Court Matagorda Co., concrete paving 4.621 mi. highway from point near Rugeley to point near Cedar Lane, Caney Section 18 ft., to R. W. Briggs & Co., Pharr, $57,840. Engrs. est. $65,000. Noted Nov. 3.

Tex., Corpus Christi—Asphalt on concrete paving and sewers in 6 blocks Water St. from Starr to Power Sts., to Smith Bros. Inc., Corpus Christi, approximately $40,000.

Tex., Crockett — Houston Co., grading, etc., 6.613 mi. Highway 19, Federal Aid Project 485-B from here north to Road Dist. line 3 and 9, also 9.122 mi. same highway south of here through Lovelady, Federal Aid Project 485-D, both 26 ft., to J. S. Moore & Sons, Lufkin, $39,250 and $28,582 respectively. Engrs. est. $55,000 and $42,000 respectively.

Tex., Leakey—Real Co., grading caliche surfacing, etc. 18.195 mi. Highway 41 from Edwards Co. to Kerr Co. lines, 26 ft., to Thomas & Ratliff, Rogers, $48,983. Engrs. est. $55,000. Noted Aug. 25.

Washington—State Hy. Comn., Olympia, grading, etc., approximately 497,000 cu.yd. State Rd. 13, Grays Harbor Co., to Goetz & Brennan, 914 Seaboard Bldg., Seattle, $343,523; crushed rock surfacing 12,000 cu. yd. State Rd. 10, Okanogan Co., to Triangle Constr. Co., 1220 Ide Ave., Spokane, $15,-353; and crushed graveling 6,300 cu.yd. State Roads 7 and 10, Grant Co., to F. G. Redmon, 206 South 4th Ave., Yakima, $9,324. Grand total $368,200. Noted Nov. 3.

California — State Hy. Comn., Sacramento, grading and crushed rock or gravel

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Streets and Roads (Continued)

surfacing, etc., 3.5 mi. roadway between south boundary and Richardson Creek, Federal Aid Project 116-B, Del Norte Co., to J. E. Johnstone, E and Weber Sts., Stockton, $168,322. Engrs. est. $195,938. Noted Nov. 10.

Calif., Glendale—Glen Oaks, Inc., G. A. Orloff, secy., curbing, guttering and paving, etc., Glen Oaks Tract, to J. E. Haddock, 357 North Chester St., Pasadena, approximately $50,000.

Calif., Los Angeles—Grading and 6 in. concrete paving, etc. 131,154 sq.ft. Plummer St. between Payton Ave. and Sepulveda St., to Fleming Constr. Co., 105 North Park Ave., Pomona, $39,045; grading, asphaltic concrete and concrete paving, etc. San Fernando Rd. between San Fernando and Burbank city limits, to Curtis Paving Co., 2440 East 26th St., Los Angeles, $432,475; also grading and 6 in. concrete paving, etc. 112,154 sq.ft. 87th and Wall St. Impvt. Dist., to G. H. Oswald, 366 East 58th St., $42,455. Grand total $513,975.

Calif., Merced — P. J. Thornton, clk. Merced Co., curbing and 4 in. Willite paving, etc., Ragsdale sub-division, to Valley Paving and Constr. Co., Visalia, $101,602. Noted Nov. 3.

Calif., Ventura—Ventura Co. will surface, etc. 190,000 sq.ft., Santa Ana Rd., etc. under supervision C. W. Petit, co. surv., Ventura. Former bids rejected. Noted Nov. 24.

Ont., Toronto—Asphalt on concrete paving Haddon St., to Constructing & Paving Co., Confederation Life Bldg., $2,234; bitulithic on concrete paving Weston Rd. and St. Clair Ave., to Warren Bituminous Paving Co., 54 University Ave., $58,377; and concrete paving Tranmer Ave. and lane, to L. P. Acri, 102 Markham St., $3,229. Grand total $63,840

Buildings—Commercial

Proposed Work

Vt., Bennington — THEATRE, STORE and OFFICE — Bennington Amusement Corp., c/o N. R. Hogan, having preliminary sketches made by E. De Rosa, 15 West 44th St., New York City, theatre, store and office building, Main and Washington Sts. $150,000.

Mass., Boston — APARTMENT — F. J. Van Etten Co., 250 Stuart St., having plans prepared by Bigelow & Wadsworth, 3 Hamilton Pl., 11 story and basement, 50 x 100 ft., rein.-con., brick, stone and steel, plain foundation, Beacon St. $280,000.

Mass., Boston — APARTMENT — Seminary Trust, 11 Gerald Rd., Brighton, having plans prepared 3 story and basement, 80 x 135 ft., brick and stone, plain foundation, 2045 Commonwealth Ave. $150,000. Private plans.

Mass., Boston — HEALTH UNIT — City, G. E. White Fund, G. E. Phela, mgr., plans 3 story and basement, brick, granite and limestone, in Charlestown Dist. $250,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—HOSPITAL — Cambridge Hospital, W. F. Earle, chn. executive com., having plans prepared by Kendall, Taylor & Co., 142 Berkley St., Boston, group 3 and 4 story and basement, brick, buildings, incl. nurses' home, children's hospital and private ward, plain foundations, Mt. Auburn St. $650,000. Noted May 19.

Mass., Dorchester (sta. Boston) — DEPARTMENT STORE—A. Pickney, 1 Court St., Boston, having sketches made by Silverman, Brown & Heenan, 51 Cornhill, Boston, 2 story and basement, rein.-con., brick and steel, plain foundation, Ramsey St., incl. bridge connecting store with Upham's Corner, here. $150,000 or more.

Mass., Falmouth — SHOP and APARTMENT — A. A. Williams, c/o Goodwell Shoe Co., Water St., Holliston, having preliminary sketches made by J. W. Beal Sons Co., 185 Devonshire St., Boston, brick, Main St., here. $150,000 or more.

Mass., Framingham—MEMORIAL CIVIC —Framingham Civic League, E. D. Smith, pres., with Dennison Mfg. Co., having sketches made by C. M. Baker, 25 Arch St., Boston, brick, Concord St. $150,000.

Mass., Franklin—THEATRE and STORE —R. Vozella, City Mills, had plans prepared by F. A. Romano, 220 Hanover St., Boston, soon takes bids 2 story and basement, 90 x 160 ft., brick and steel, plain foundation, 47 East Central St. $150,000-$160,000. Noted Nov. 3.

Mass., Mansfield — THEATRE and STORE—E. L. and H. L. White, c/o J. E. Kelly, archt., 38 Chauncy St., Boston, having revised plans prepared 2 story and basement, 80 x 150 ft., brick, stone and steel, plain foundation, Main St. $150,000.

Mass., Northampton—BANK—First Natl. Bank., c/o J. W. Beal Sons Co., archts., 185 Devonshire St., Boston, having preliminary plans prepared 1 story and basement, rein.-con., brick and steel, plain foundation, 61 Main St. $150,000.

Mass., Northampton — HOSPITAL — Dickenson-Cooley Hospital, 30 Locust St., having plans prepared by K. S. Putnam, 78 Main St., altering and constructing 2 and 3 story and basement, 55 x 100 ft., brick addition to Maternity Ward, plain foundation, Locust St. $150,000 or more.

Mass., Roxbury (Boston P. O.) — HEALTH—City of Boston, G. E. White Fund, G. E. Phelan, mgr., City Hall, plans 3 story and basement, brick, limestone and granite health unit, here. $250,000. Engineer and architect not selected.

Mass., Somerville—HOSPITAL—Trustees Somerville Hospital, F. J. Droyer, chn. building comn., 12 Temple St., plans additional unit, Crocker St. $150,000 or more. Engineer and architect not selected.

R. I., Woonsocket—TEMPLE—Order of Masons, G. A. Farron, c/o Industrial Trust Co., plans masonic temple, Clinton St. To exceed $150,000. Engineer and architect not selected.

Conn., New Haven—CITY HALL—City, J. B. Towers, mayor, receiving competitive plans (from local architects), city hall and auditorium, Orange St., here. $1,750,000. E. V. Meeks, Yale Art School, consult. archt. Noted Dec. 2, 1926.

Conn., Stamford—EXCHANGE—Southern New England Telephone Co., 156 Church St., New Haven, having preliminary plans prepared by R. W. Foote, 185 Church St., New Haven, brick and steel addition, here. $130,000 or more.

N. Y., Jamaica — THEATRE — Allied Owners Corp., 331 Madison Ave., New York City, takes bids in January or February, rein.-con., brick and steel, plain foundation, Jamaica Ave. and Merrick Rd., here. $150,000. C. W. and G. L. Rapp, 231 West 43rd St., New York City, archts. Noted May 5.

N. Y., New York—APARTMENTS—One Hundred Forty West 81st Street Corp., c/o J. M. Felson, archt., 250 West 57th St., having plans prepared 12 story, 104 x 111 ft. apartment, Lexington Ave. and 81st St. $1,000,000. Work will probably be done by separate contracts.

N. Y., New York—APARTMENT—Far Flung Realty Co., Inc., c/o D. Kempner, 522 5th Ave., having preliminary plans prepared by Gronenberg & Leuchtag, 1385 Bway., 15 story apartment, 69-73 East 77th St. $600,000.

N. Y., New York — APARTMENT — Moenat Realty Co., c/o Glick & Duma, archts., 375 East Fordham Rd., having plans prepared 6 story apartment, Nelson Ave. and 174th St. $150,000.

N. Y., New York—APARTMENT—Morgan Studios, Inc., c/o M. M. Taylor, 167 East 78th St., having plans prepared 9 story, 73 x 102 ft. apartment, known as Morgan Studios, 167 East 78th St. $525,000. Engineer and architect not announced.

N. Y., New York — APARTMENTS — Gundstein Building Corp., c/o G. W. Swiller, archt., 4215 3rd Ave., having plans prepared two 5 story, 86 x 125 ft. apartments, White Plains Ave. near Morris Park Ave. $320,000.

N. Y., New York — BANK — West Side Savings Bank, c/o C. O. Bigelow, 110 6th Ave., having plans prepared by Halsey, McCormack & Helmer, 286 5th Ave., 1 and 3 story bank, 6th Ave. and 9th St. $300,000.

N. Y., New York—BANK—Dennison & Hirons, archts., 288 Lexington Ave., soon lets contract 3 story and basement, 8th Ave. and 43rd St., for State Bank, 376 Grand St. $300,000.

N. Y., New York—CLUB—Beaux Arts Institute of Design, 126 East 75th St., having preliminary sketches made by Denison & Hirons, 288 Lexington Ave., 4 story, 50 x 100 ft. club, 304-06 East 44th St. $150,000.

N. Y., New York—HOSPITAL—Babies Hospital, c/o Joint Bd. Columbia University-Presbyterian Hospital, 135 East 55th St., having plans prepared by H. C. Pelton, 415 Lexington Ave., and James Gamble Rogers, 154 East 46th St., 11 story hospital, Bway. and West 165th St. $1,400,000.

N. Y., New York—STORE and DANCE HALL—Bway. Block Corp., c/o W. Melville, 191 Hudson St., having plans prepared by Schultze & Weaver, 17 East 49th St., having plans prepared 3 story, 108 x 207 ft. store and dance hall, Bway. and 51st St. $1,100,000.

N. Y., New York—STUDIO—W. Russell, 1 West 67th St., having skeches made 14 story and basement, 93 x 102 ft. studio building, 160 West 73rd St. $1,200,000. Engineer and architect not announced.

N. J., Belleville (br. Newark)—APARTMENT — Essex Court Holding Co., c/o Baldino & Bellay, archts., 270 Harrison Ave., Lodi, having plans prepared 5 story and basement, 80 x 120 ft., brick and steel, plain foundation, Washington Ave. and Essex St., here. $150,000.

N. J., Cliffside Park (mail Cliffside)—APARTMENT — Angelo DePaolo, c/o A. DePaola, 106 18th St., West New York, will not construct 5 story and basement, brick and steel, plain foundation, Anderson Ave., here. $150,000. Project abandoned. Noted Sept. 8.

N. J., East Orange — APARTMENT — Feldman & Pivnick, 68 Custer Ave., Newark, having plans prepared by R. Botteli, 45 Branford Pl., Newark, 4 story and basement, brick and steel, plain foundation, 44 Lenox Ave., here. $150,000.

N. J., East Orange—CITY HALL—City, City Hall, soon takes bids general contract 3 story and basement, 180 x 250 ft., brick and steel, plain foundation, North Arlington Ave. and New St. $200,000. J. H. and W. C. Ely, 1784 Broad St., Newark, archts. Noted Nov. 17.

N. J., Hackensack — APARTMENT — State Store Builders, c/o E. Gerber, archt., 786 Broad St., Newark, having plans prepared 5 story and basement, brick and steel, plain foundation, Pangborn Pl., here. $150,000.

N. J., Newark—APARTMENT—Owner, c/o D. J. Scrocco, archt., 60 Park Pl., having plans prepared 4 story and basement, 80 x 90 ft., brick and steel, plain foundation, Sanford Ave. near Netherland Pl. $175,000.

N. J., Newark—APARTMENT—C. Riess, 262 Ellery Ave., having plans prepared by N. Nadel & M. Fort, 32 Hill St., 4 story and basement, 100 x 125 ft., brick and steel, plain foundation, 191-201 Highland Ave. $200,000.

N. J., Newark — APARTMENT — Stuyvesant Holding Co., c/o M. Klemmt, archt., 68 Clinton Ave., having plans prepared 4 story and basement, brick and steel, plain foundation, 493-99 Roseville Ave. $150,000.

N. J., Perth Amboy—STORE and LOFT —A. Kaufman, 239 State St., having plans prepared by G. M. Ricci, 224 Smith St., 4 story and basement, 100 x 135 ft., rein.-con., brick and steel, plain foundation, New Brunswick Ave. $150,000.

N. J., Perth Amboy—THEATRE—Prudence Realty Co., 102 Washington St., having plans prepared by W. E. Lehman, 972 Broad St., Newark, 2 story and basement, brick and steel, plain foundation, Central R.R. tracks, Smith and Jefferson Sts. $300,000.

N. J., Ridgefield — APARTMENT — Boorstein & Sons, c/o G. M. McEntyre, archt., 524 17th St., West New York, having plans prepared 5 story and basement, 100 x 100 ft., brick and steel, plain foundation, Broad Ave. and Maple St., here. $150,000.

Pa., Ambler—THEATRE and STORE—Solomon Kaplan, archt., 10 South 18th St., Phila., preparing plans 1 story and basement, 100 x 230 ft., brick and steel, 1,200 seating capacity, plain foundation, here. Owner's name withheld.

Pa., Phila.—APARTMENT and STORE —C. C. Caspary, archt., Mitten Bldg., soon lets contract 3 story and basement, 110 x 170 ft., with two 35 x 170 ft. wings, brick and steel, plain foundation, 33rd and Columbia Sts., for P. Shalita & Son, Dauphin and Ridge Sts.

Pa., Phila.—THEATRE and OFFICE—Magaziner, Eberhardt & Harris, archts., 603 Chestnut St., preparing plans 5 story and basement, 100 x 206 ft., rein.-con., brick and steel, plain foundation, Broad and Susquehanna Sts. Owner's name withheld.

Md., Baltimore — HOSPITAL — Union Memorial Hospital, 33rd St. and Guilford Ave., having plans prepared by J. E. Sperry, Calvert Bldg., 6 story and basement, irregular shaped, brick and steel addition, Guilford Ave. between 33rd and 34th Sts. $400,000. H. F. Doeleman, 516 North Charles St., engr.

Tenn., Memphis — WORK HOUSE — Shelby Co. having plans prepared by Harker & Cairns, Court Square Bldg., work house on 10 acre tract, at Mullins Station. To exceed $150,000.

Ky., Covington—HOTEL—Local Syndicate, c/o P. J. Bradshaw, archt., International Life Bldg., St. Louis, Mo., having preliminary plans prepared 8 story and basement, 250 room, rein.-con., brick and stone, here. $1,000,000.

Ky., Louisville—OFFICE and STORE—F. W. Dryborough, 307 South 5th St., having plans prepared 8 story and basement

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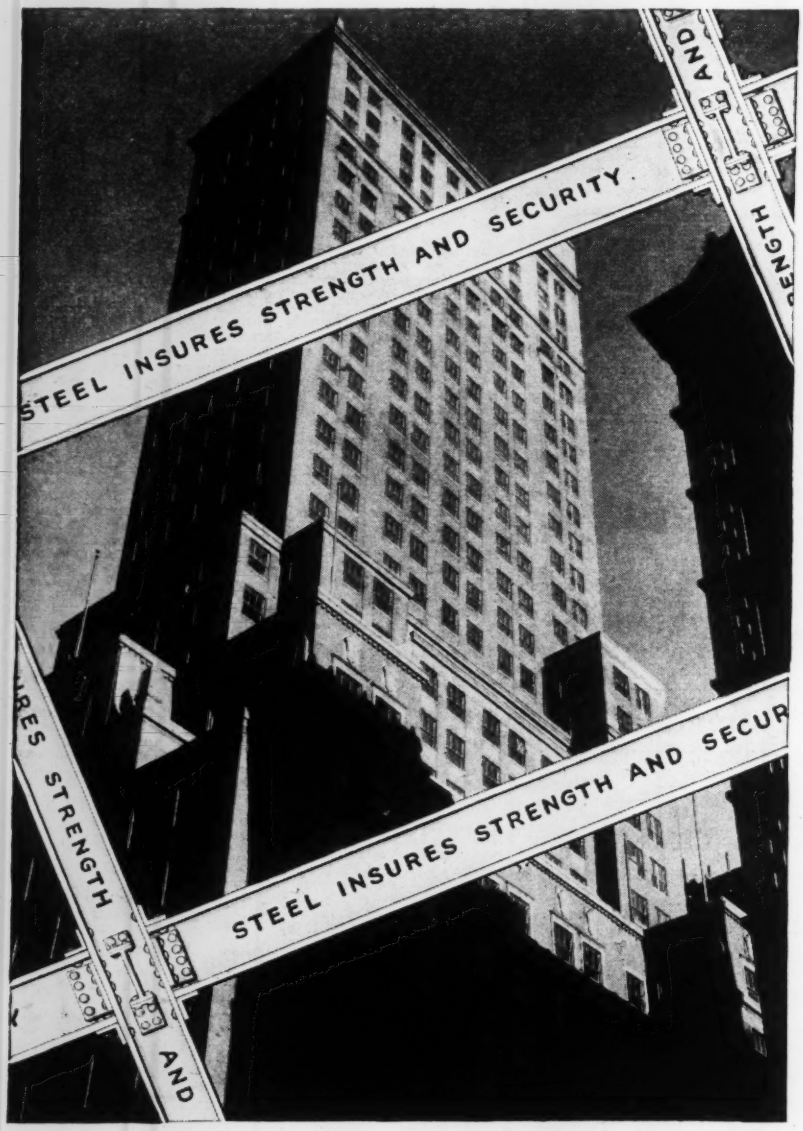

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Buildings—Commercial (Continued)

office and stone, 620-24 South 5th St. $250,000. Engineer and architect not selected.

Ohio—INSTITUTIONS—Bd. Control, Columbus, having plans prepared by J. E. Harper, Dept. Welfare, Columbus, various institutions, approximately $1,175,000, incl. cottage at Massillon State Hospital, Massillon, $125,000; cottage at Toledo State Hospital, Toledo, $160,000; cottage at Cleveland State Hospital, Cleveland, $150,000; cottage $125,000, and School for Boys, $25,000, both at Ohio Hospital for Epileptics, Gallipolis; and dormitory, Ohio State Reformatory, Mansfield, $5,000; administration building addition, Massillon State Hospital, Massillon, $7,500; tuberculosis ward, Longview State Hospital, Cincinnati, $40,000; tuberculosis ward at Girls Industrial School, Delaware, $15,000; power house and equipment $85,000, cold storage, kitchen, bakery, etc., $90,000, and laundry and equipment $50,000, all foregoing for Hawthornden Farm, Cleveland State Hospital; power house and equipment, Institution for Feeble Minded, Columbus, $175,000; and wing to laundry building, Institution for Feeble Minded, Orient, $46,000.

O., Canton—MERCANTILE—North Market Realty Co., North Market Ave., takes bids about Jan. 26 5 story and basement, 42½ x 125 ft., brick, Market Ave. S. $200,000.

O., Cincinnati — APARTMENT — Ohio Building & Constr. Co. (owner and archt.), 2513 Burnet Ave., plan 10 story and basement, 75 x 150 ft., brick and rein.-con., plain foundation, Victory Parkway. $1,500,000.

O., Cincinnati—APARTMENT—Stoller & Sander, 909 Mercantile Library, having plans prepared by O. H. Bardon, 203 East 7th St., 3 story and basement, rein.-con. and brick, plain foundation, Hale Ave. $150,000.

O., Cincinnati—THEATRE and OFFICE—Fox Film Co., 850 10th Ave., New York City, having plans prepared by W. W. Ahlschlager, 65 East Huron St., Chicago, Ill., 6 story and basement, brick and rein.-con., plain foundation, Main St. $1,000,000.

O., Cleveland—APARTMENT—B. Benjamin, 9917 Parkgate Ave., having plans prepared by L. R. Walker, 1900 Euclid Ave., 6 story and basement, 50 x 160 ft., brick and steel, 9824 Lake Ave. $250,000.

O., Dayton—HOSPITAL—Good Samaritan Hospital Assn., M. J. Gibbons, Jr., chn. com., 22 Oxford Ave., plans 3 or 4 story hospital, Fairview and Salem Sts. $1,000,000. Engineer and architect not selected.

O., Lakewood (br. Cleveland)—APARTMENT—P. F. Price, 12719 St. Clair Ave., Cleveland, having plans prepared by Allen-Osborn Co., archts. and engrs., Rose Bldg., Cleveland, 12 story and basement, 70 x 200 ft., brick and steel, Edgewater Dr., here. $750,000.

O., Massillon — THEATRE — Massillon Theatre Co., c/o J. Kerr Giffen, archt., Brandt Bldg., Canton, having plans prepared 2 story and basement, 71 x 140 ft., brick, steel and concrete, here. $200,000.

O., Warren—Y. M. C. A., E. W. Brannon, genl. secy., having plans prepared by Keich, O'Brien & Hosker, local archts., and J. F. Jackson, consult. archt., 137 East 45th St., New York City, new building. $300,000.

Ind., Ft. Wayne—APARTMENT HOTEL—Hilgeman & Schaaf, 209 East Wayne St., having preliminary plans prepared by A. M. Strauss, 415 Cal-Wayne Bldg., 8 story and basement, 150 x 155 ft., rein.-con., brick and steel, Fairfield and Berry Sts. $1,000,000. Holden Hotels Co., Chicago, Ill., lessee.

Mich., Benton Harbor — HOTEL and MINERAL BATH HOUSE — Syndicate, c/o Cobb & Eisenberg, archts., 5 North La Salle St., Chicago, Ill., soon takes bids 4 story, 240 room hotel, incl. 20 x 60 ft. swimming pool, etc., Parker Station, 8 mi. from here. $500,000.

Mich., Detroit — APARTMENT and GARAGE — Levine Bros., 3200 West Chicago St., having plans prepared by Wiedmaier & Gay, 1212 Metropolitan Bldg., 4 story and basement, 90 x 182 ft., rein.-con., brick and steel apartment, and 50 car garage, plain foundation, Linwood Ave. $200,000.

Mich., Detroit — CLUB — Union League Club, 35 West Grand River Ave., had plans prepared 6 story and basement, 83 x 130 ft., rein.-con., brick and steel, plain foundation, Fort and Wayne Sts. $1,000,000. Engineer and architect's names withheld.

Mich., Detroit—CLUB HOUSE—Bayview Yacht Club, Motor Boat Lane, purchased site and plans 3 or 4 story, rein.-con., brick and steel, Grayhaven St. $175,000. Engineer and architect not selected.

Mich., Detroit—GARAGE—Book Estate, Book Bldg., having plans prepared by L. Kamper, 3729 Case Ave., 12 story (ultimately 24 story), and basement, 100 x 182 ft., rein.-con., brick and steel, plain foundation, Washington Blvd.

Mich., Owosso—HOTEL—B. K. Gibson, archt., 624 South Michigan Ave., Chicago, Ill., takes bids about Dec. 15, 6 story, rein.-con. and brick, Main and Washington Sts., here, for Holden Owosso Co. $300,000. Noted Nov. 3.

Mich., Pontiac—OFFICE and GARAGE—Owner, c/o J. Kasurin, archt., 502 Empire Bldg., Detroit, having plans prepared 10 story office and 4 story ramp garage, both rein.-con., brick, steel and limestone, plain foundations, $400,000.

Ill., Chicago—APARTMENT and STORE—Arthrop Building Corp., c/o E. A. Nitsche, archt., 28 East Huron St., having plans prepared 9 story and basement, 99 x 99 ft., rein.-con., brick and stone, 1104 Argyle St. $1,000,000.

Ill., Chicago—APARTMENT and STORE—L. F. Urbain, archt., 1254 Lake Shore Dr., soon takes bids 6 story and basement, 50 x 125 ft., rein.-con., brick and terra cotta, Sheridan Rd. near Loyola Ave., for A. A. Miller, c/o architect. $350,000.

Ill., Kankakee—OFFICE and STORE—E. A. Nitsche, 28 East Huron St., Chicago, soon takes bids 5 story and basement, 65 x 90 ft., rein.-con. ,brick and stone, here, for H. L. Topping.

Ill., Morgan Park (sta. Chicago)—BARRACKS—Morgan Park Military Academy, 2125 West 111th St., having plans prepared by R. H. Oliver, 115 South Dearborn St., Chicago, 3 story and basement, 40 x 175 ft., rein.-con., brick and stone, on campus. $150,000.

Ill., Peoria — HOSPITAL — St. Francis Hospital, c/o J. Vonachen, doctor, 512 Glen Oak Ave., having plans prepared by A. F. Moratz, Peoples Bank Bldg., Bloomington, and takes bids in spring, hospital addition. $500,000.

Wis., Janesville — SANITARIUM — Supervs. Rock Co., Milton Junction, having sketches made by Rowe, Dillard & Rowe, 127 North Dearborn St., Chicago, Ill., 2 and 3 story tuberculosis sanitarium, brick, near County Poor Farm, here. $200,000.

Ia., Keokuk—HOSPITAL—M. J. Geise, archt., Y. M. C. A. Bldg., takes bids about Mar. 1, 4 story and basement, 98 x 150 ft., rein.-con., brick and stone, plain foundation, for Methodist Protestant Hospital Assn., M. C. Jackson, local supt. $400,000. Noted July 28.

Ia., Marshalltown—THEATRE, STORE and OFFICE—Universal Picture Corp., 730-5th Ave., New York City, having preliminary plans prepared 2 story and basement, rein.-con., brick, stone and terra cotta, here. $250,000.

Minn., Minneapolis—STORE and OFFICE—J. Engquist & Sons, 3 West Lake St., having plans prepared 4 story and basement, 75 x 100 ft., rein.-con., brick and stone, West Lake St. near Nicollet Ave. $150,000. Private plans.

Minn., Minneapolis—THEATRE—Finkelstein & Ruben, 425 Loeb Arcade Bldg., having plans prepared by Ellerbe & Co., 510 Essex Bldg., 113 x 185 ft., rein.-con., brick and stone, Lake St. and Stevens Ave. $350,000.

Mont., Bozeman—HOTEL—J. A. Lovelace & J. R. Chambers having preliminary plans prepared by F. F. Willson, 5 or 6 story and basement, 101 x 106 ft. hotel. $160,000.

Mo., Kansas City — HOSPITAL — City having plans prepared by F. Gunn, Continental Bldg., and takes bids about Dec. 23, 6 story and basement negro hospital, rein.-con., fireproof. $250,000.

Mo., Mine La Motte — CLUB — Sweet Water Country Club, c/o J. L. Bowling, Inc., archts., 1196 Arcade Bldg., St. Louis, postponed indefinitely construction 2.5 and 3 story, 40 x 150 ft., native stone and hollow tile, plain foundation, here. $150,000. Noted May 19.

Mo., St. Louis—APARTMENT—S. Koplar, 265 Union Blvd., having preliminary plans prepared approximately 10 story, rein.-con., steel, stone, brick and terra cotta, on 195 x 252 ft. site, Lindell Blvd., and Euclid Ave.

Mo., St. Louis—HOTEL—G. W. Hunter, c/o Midland Real Estate Co., 8 North 8th St., having preliminary plans prepared 12 or more story and basement, 70 x 108 ft., rein.-con., brick, terra cotta and steel, 8th and Market Sts. $1,000,000.

Mo., St. Louis—STORE and APARTMENT—S. J. Weinberg, 816 Chestnut St., purchased site and plans 3 story and basement, 74 x 132 ft., rein.-con., brick and stone, Union St. and St. Louis Ave. $150,000.

Tex., Ft. Worth — APARTMENT — S. Moore, archt., 709 Flatiron Bldg., takes bids about Dec. 20, 3 story, 44 x 101 ft., rein.-con., brick and stone, 2104-6-8 Hemphill St., for N. Stanfield, Ft. Worth. $200,000.

Okla., Pawhuska — COURT HOUSE — Osage Co. having preliminary plans prepared 3 story and basement, rein.-con. and brick addition, plain foundation. $150,000. Engineer and architect not selected.

Wash., Hoquiam — THEATRE and STORE—Huntington & Torbitt, archts., Empire Bldg., Seattle, takes bids about Dec. 19, 2 story, 95 x 150 ft., rein.-con., stucco and stone, here, for Hoquiam Building Co. $150,000.

Calif., Beverly Hills—BANK and OFFICE — California Natl. Bank had preliminary plans prepared by Walker & Eisen, Western Pacific Bldg., Los Angeles, 10 or more story, Beverly Dr. To exceed $250,000.

Calif., Los Angeles—WAREHOUSE—Daleys, Inc., 751 Terminal St., plans 1 story, 100 x 300 ft., brick, concrete and steel, 49th and Alhambra Sts. Austin Co. of California, 777 East Washington St., engr.

Calif., Merced — THEATRE — Golden State & Realty Co., 86 Golden Gate Ave., San Francisco, having plans prepared by M. T. Jorgensen, 742 Market St., San Francisco, fireproof addition, here. $150,000.

Calif., Oakland—CLUB—Roeth & Bangs, archts., 1404 Franklin St., soon takes bids 6 story and basement, rein.-con., Belleview Ave., for Women's Athletic Club, Great Western Power Bldg. $300,000.

Calif., Oakland—HOTEL—H. Schroeder, archt., 354 Hobart St., preparing preliminary plans 14 story and basement hotel. To exceed $500,000. Owner's name withheld.

Calif., Riverside — THEATRE, STORE and OFFICE—El Camino Corp. having preliminary plans prepared by Balch Bros., 1584 West Washington St., Los Angeles, 2 story, approximately 100 x 137 ft., rein.-con. theatre, etc., 1,500 seating capacity, Main St., here. $300,000. West Coast Theaters, Inc., 1619 West Washington St., Los Angeles, lessee.

Calif., San Francisco—HOME and CLUB—Native Daughters of the Golden West, N. S. G. W. Bldg., had plans prepared by J. Morgan, Merchants Exch. Bldg., 4 story and basement, concrete and steel, Baker St. $150,000.

Calif., Yountville—BARRACKS—G. B. McDougall, state archt., Sacramento, takes bids about Feb. 1, 2 story, 50 x 400 ft., steel and rein.-con., here, for State Building Comn. $170,000. W. C. Hays, 1st Natl. Bank Bldg., San Francisco, associated archt. Noted Sept. 1.

Ont., Hamilton—APARTMENT—W. J. Tillotson, 1081 Main St. E., having plans prepared by E. B. Patterson, 143 Wentworth St. N., 3 or 4 story and basement, rein.-con., brick and steel, plain foundation, Fairleith Ave. $175,000.

Ont., Toronto — APARTMENT — W. R. Morson, 148 Bedford Rd., having plans prepared by R. Card, 142 Chester Ave., 3 story and basement, rein.-con., brick and steel, plain foundation, Queen St. and Willow Ave. $150,000.

Ont., Toronto—NEWSPAPER OFFICE and PLANT — Star Publishing Co., 18 King St. W., soon takes bids superstructure 20 story and basement, 170 x 185 ft., rein.-con. and steel office and plant. Total $3,000,000. Excavation, underpinning, rein.-con. foundations, and retaining walls for above, to Thompson Starrett Constr. Co., 205 St. James St., Montreal, Que., approximately $100,000. Chapman & Oxley, Northern Ontario Bldg., archts. Noted June 23.

Ont., Toronto—OFFICE—Holt-Gundy & Co., 140 James St., Montreal, Que., having plans prepared by Chapman & Oxley, Northern Ontario Bldg., 28 story and basement, 100 x 100 ft., rein.-con. or structural steel, brick and stone, concrete foundation, King and Bay Sts., here. $2,250,000.

Ont., Toronto—OFFICE and STORE—Yonge & Dundas Investments Ltd., c/o Kaplan & Sprachman, archts., 305 Dundas St. W., having plans prepared two 2 or 3 story ultimately 5 or 6 story and basement, 20 x 127 ft., rein.-con., brick and steel, plain foundations, Yonge and Dundas Sts. $150,000.

Ont., Toronto—STORE—J. Northway & Son, 240 Yonge St., having plans prepared by Harwood & White, 229 Yonge St., 6 or 7 story and basement, 60 x 110 ft., rein.-con., brick and steel, plain foundation, Louisa and Yonge Sts. $350,000.

Bids Desired

Mass., Cambridge (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Quincy (Ind. br. Boston) — APARTMENT—See "Contracts Awarded."

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Buildings—Commercial (Continued)

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT HOTEL—See "Contracts Awarded."

N. Y., New York—OFFICE—See "Contracts Awarded."

N. Y., Peekskill—THEATRE—See "Contracts Awarded."

N. Y., Syracuse — APARTMENT — See "Contracts Awarded."

N. J., Asbury Park—GARAGE, Etc.—C. B. Cook, archt., 700 6th Ave., taking bids general contract 3 story and basement, rein.-con., brick and steel, plain foundation, Cookman and Monroe Aves., for Asbury Park Hotel, S. Schneider, 418 Main St. $400,000. Noted Nov. 7.

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., North Arlington (mail Arlington)—APARTMENT—See "Contracts Awarded."

N. J., Passaic — APARTMENT — See "Contracts Awarded."

N. J., Union City—APARTMENT—See "Contracts Awarded."

N. J., Weehawken—APARTMENT—See "Contracts Awarded."

Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Phila.—LOFT—Dec. 12, by M. A. Bernhardt, archt., 127 South 18th St., 10 story and basement, 64 x 67 ft., rein.-con., brick and steel, plain foundation, 22 North 7th St., for Southern Bookbinding Co., 22 North 7th St.

Ind., Hammond — APARTMENT and STORE — Owner, c/o H. Glube, archt., 360 North Michigan St., Chicago, Ill., taking bids 3 story and basement, 50 x 188 ft., brick and steel, 454 East State St., here. $150,000.

Ind., Indianapolis—HOTEL—Dec. 10, by W. E. Bayfield, Hotel Majestic, Chicago, Ill., 8 story and basement, 70 x 77 ft., rein.-con., brick and steel, Market St. and Capitol Ave., here. $250,000. W. E. Russ, Meridian Life Bldg., archt.

Ind., Washington — COURT HOUSE — Comrs. Davies Co., R. Moren, aud., taking bids and open same about Jan. 1, 3 story and basement, 86 x 118 ft., rein.-con., steel and stone court house. $330,000. Sutton & Routt, Citizens Trust Bldg., Vincennes, archts. Noted Sept. 15.

Mich., Detroit—APARTMENT—See "Contracts Awarded."

Mich., Birmingham—OFFICE—A. Kahn, archt., 1000 Marquette Bldg., taking bids 8 story and basement, 100 x 208 ft., rein.-con., brick, steel and stone, plain foundation, West Maple St., for Wabeek Corp., c/o J. Couzens, Birmingham. $1,000,000. Noted Sept. 29.

Mo., Kansas City—HOTEL—See "Contracts Awarded."

Tex., McAllen—HOTEL—See "Contracts Awarded."

Tex., Waco—MASONIC TEMPLE—Dec. 13, by Order of Mystic Shrine, W. F. Quebe, secy. building comr., taking bids 3 story and part basement, rein.-con., brick and steel masonic temple. $150,000. R. E. Lane, 108½ South 6th St., archt.

Contracts Awarded

Me., Skowhegan — REFORMATORY — State, c/o S. H. Bates, c/o Pulsifer & Eye, Inc., archts., 163 Main St., Lewiston, 3 story and basement, brick and steel, detention building at reformatory for women, plain foundation, here, to K. H. Kerr, Rumford. Archts. est. approximately $150,000.

Mass., Arlington (br. Boston)—STORE and OFFICE—Arlington Finance Club, W. A. Muller, 65 Kilby St., Boston, 3 story and basement, 70 x 100 ft., brick and stone, Massachusetts Ave. and Mystic St., to Arlington Constr. Co., 313 Bway., Arlington. Archts. est. approximately $150,000.

Mass., Boston—STORE and OFFICE—J. Stanton, 520 Beacon St., altering and reconstructing 4 story and basement, brick and stone, plain foundation, 165 Newbury St., to M. W. Ryan, 763 Massachusetts Ave., Cambridge. Archts. est. $150,000. Noted Nov. 10.

Mass., Cambridge (Boston P. O.) — APARTMENT — W. B. Bushway, c/o J. E. Holmes Co., archt., 420 Boylston St., Boston will build 3 story and basement, brick and stone, plain foundation, Prospect St. $150,000-$160,000. Work will be done by separate contracts. Noted Nov. 24.

Mass., Cambridge (Boston P. O.)—HOME—City, Overseers of Poor, City Hall, 3 story and basement, 40 x 480 ft., brick and steel, Concord St., to Askin & Sullivan, 580 Massachusetts Ave. Archts. est. $300,000.

Mass., Mansfield — THEATRE and STORE — E. L. and H. L. White, Main St., 1 and 2 story and basement, brick, steel and stone, plain foundation, Main St., to W. H. Barker, 4 Cohannet St., Taunton. Archts. est. $150,000. Noted Dec. 8.

Mass., Quincy (Ind. br. Boston)—APARTMENT—G. J. Van Boemel, 72 Davis St., Wollaston, will build 4 story and basement, brick and stone plain foundation, Glover Ave. $150,000. Work will be done by separate contracts.

Mass., Waltham — HOSPITAL — Dept. Mental Diseases, State House, Boston, general contract 3 story and basement, brick, steel and terra cotta, plain foundation, Trapelo Rd., at junction of town lines Waltham, Lexington and Belmont, to C. H. Cunningham & Sons Constr. Co., 80 Boylston St., Boston, $643,700; heating and ventilating, to R. H. Baker Co., Inc., 238 Main St., Cambridge, $75,470; plumbing, to H. J. Lyons Co., 25 D St., South Boston, $67,470; and electrical work, to Carlisle Electric Co., 250 Stuart St., Boston, $57,350. Grand total $843,990. Noted Nov. 10.

N. Y., Brooklyn—BANK—Halsey, McCormack & Helmer, archts., 286 5th Ave., New York City, general contract 40 story, 98 x 202 ft., brick and steel, Hanson and Ashland Pls., here, to William Kennedy Constr. Co., 215 Montague St., for Williamsburg Savings Bank. Archts. est. $4,-000,000. Noted Sept. 29.

N. Y., Buffalo—Y. M. C. A., 45 Mohawk St., Humboldt District Branch, 3 story, 100 x 120 ft., brick, to Tift Constr. Co., Iroquois Bldg., $240,000.

N. Y., Dobbs Ferry—APARTMENT—H. Suchin, Bway., 4 story, apartment, to F. Angelili, 56 West 45th St., New York City. Archts. est. $300,000.

N. Y., Mount Vernon — APARTMENT and STORE—North Street Realty Corp., 6 story apartment, West Lincoln Ave. and North St., to Fredburn Constr. Co., 7 East 44th St., New York City.

N. Y., New York—APARTMENT—Brixton Corp., 944 Lexington Ave., will build 15 story, 75 x 102 ft. apartment, 211 East 72nd St. $150,000. Work will be done by separate contracts. Engineer and architect not selected.

N. Y., New York — APARTMENT — A. D'Antona, 100 West 72nd St., will build 15 story and basement, 78 x 100 ft. apartment, East 96th St. between 5th and Madison Aves. $1,000,000. Work will be done by separate contracts.

N. Y., New York—APARTMENT—Eight Hundred Fifty-Six 5th Avenue Corp., c/o M. E. Paterno, pres., 200 West 72nd St., will build 12 story, 70 x 120 ft. apartment, 856 5th Ave. $800,000. Work will be done by separate contracts. R. Candela, 578 Madison Ave., and Warren & Metmore, 16 East 47th St., archts.

N. Y., New York—APARTMENT—Forty West 77th Street Corp., c/o J. M. Felson, archt., 250 West 57th St., will build 16 story and basement, 84 x 130 ft. apartment, 40 West 77th St. $1,500,000. Work will be done by separate contracts.

N. Y., New York—APARTMENT—H. C. and S. Building Corp., 341 East 149th St., will build 6 story and basement, 80 x 100 ft., brick, 203rd St. and Valentine Ave. $175,000. Work will be done by separate contracts. I. L. Cransman, 341 East 149th St., archt.

N. Y., New York — APARTMENT — Irving Broof Constr. Co., 810 East 156th St., will build 6 story, 50 x 100 ft. apartment, 517 West 161st St. $225,000. Work will be done by separate contracts. Engineer and architect not selected.

N. Y., New York—APARTMENT—One Thousand and Seventy Park Avenue, Inc., c/o Schwartz & Gross, archts., 347 5th Ave., will build 14 story and basement, 100 x 137 ft. apartment, Park Ave. and 88th St. $1,800,000. Work will be done by separate contracts.

N. Y., New York — APARTMENT — Paterno Bros., 601 West 115ht St., will build 14 story and basement, 86 x 110 ft. apartment, Sutton Pl. and 58th St. $850,-000. Work will be done by separate contracts. R. Candela, 578 Madison Ave., archt. Noted Oct. 20.

N. Y., New York—APARTMENT—J. M. Paterson, 247 Park Ave., general contract 9 story and basement, 50 x 100 ft. apartment, 3 East 84th St., to Hegeman Harris Co., Inc., 360 Madison Ave. Archts. est. $350,000. Noted Oct. 6.

N. Y., New York—APARTMENT HOTEL—Two Hundred Twenty-Nine East 79th Street Corp., c/o Aaronson & Heidrich, archt., 25 West 43rd St., will build 15 story, 82 x 99 ft., brick, 229-35 East 79th St. $1,000,000. Work will be done by separate contracts.

N. Y., New York — HOSPITAL — Mt. Sinai Hospital, c/o G. Blumenthal, 120 Bway., altering and constructing additional stories to hospital, 1 East 100th St., to Fred'k Page Constr. Co., 45 East 17th St. Archts. est. $300,000.

N. Y., New York — HOSPITAL — New York Hospital and Cornell Medical College, E. W. Sheldon, pres., 46 Park Ave., 9 story hospital, Avenue A, Exterior, 68th and 70th Sts., to Marc Eidlitz & Son, Inc., 41 East 42nd St. Archts. est. $7,000,000. Noted Dec. 1.

N. Y., New York—HOTEL and THEATRE—Havermeyer Constr. Co., steel for 24 story and basement, 150 x 212 ft. apartment, hotel and theatre, Bway. and 72nd St., to Levering & Garrigues, 552 West 23rd St.; concrete, to Corbetta Concrete Corp., 103 East 125th St.; and plumbing, to L. Black, 8th Ave. and 44th St. Archts. est. $5,000,000. Noted Feb. 3.

N. Y., New York—OFFICE—Lefcourt & Hass Finance Corp., 1351 Bway., will build 42 story office, 5th Ave. and 43rd St. $11,-000,000. Work will be done by separate contracts. Shreve & Lamb, 11 East 44th St., archts. Noted Nov. 10.

N. Y., Peekskill—THEATRE—Gottesman Enterprises, 1540 Bway., New York City, will build 2 story theatre, Park St., here. $500,000. Work will be done by separate contracts. W. W. Johnson, 285 Madison Ave., New York City, archt. Noted Nov. 10.

N. Y., Scarsdale—POST OFFICE and STORE — Scarsdale Impvt. Corp., c/o Scarsdale Natl. Bank, 4 story post office and store building, Chase Rd. and Parkway Pl., to George A. Fuller Co., 949 Bway., New York City. Archts. est. $500,000.

N. Y., Syracuse — APARTMENT — Alibrandi Bros., 305 Griffins Bldg., will build 4 story and basement, 55 x 57 x 100 ft., brick, plain foundation, 1445 South Salina Ave., by day labor. $175,000.

N. Y., Syracuse—STORE and OFFICE—Markus Rosenblum Estate, 2 story and basement, 25 x 105 x 127 ft., rein.-con., brick and steel, plain foundation, 440-52 South Warren St., to Dawson Bros., Union Bldg., $150,000.

N. Y., West New Brighton — COURT HOUSE—J. A. Lynch, pres. Richmond Boro, Boro Hall, general contract combined municipal and magistrates court building, here, to Staten Island Constr. Co., 56 Bay St., St. George, $165,000. Noted Oct. 20.

N. J., East Orange — APARTMENT — Feldman & Pivnick, Inc., 68 Custer Ave., Newark, will build 4 story and basement, 95 x 125 ft., brick and steel, plain foundation, 40 Lenox Ave. $150,000. Work will be done by separate contracts. R. Bottelli, 45 Branford Pl., Newark, archt. Noted Dec. 8.

N. J., Newark—APARTMENT—M. Gray & J. Kruvant, 77 Hedden Terrace, will build 5 story and basement, 130 x 185 ft., brick and steel, plain foundation, Renner Ave. $320,000. Work will be done by separate contracts. H. F. Clark, 38 Clinton St., archt. Noted Nov. 3.

N. J., North Arlington (mail Arlington)—APARTMENT—A. Pomondelli, 207 Market St., Newark, will build 3 story and basement, 100 x 150 ft., brick and steel, plain foundation, Beech St., here. Work will be done by separate contracts. D. J. Scrocco, 60 Park Pl., Newark, archt.

N. J., Passaic—APARTMENT—S. Kaplan, 181 Madison Ave., will build 4 story and basement, 90 x 100 ft., brick and steel, plain foundation, 121-27 Gregory Ave. $150,000. Work will be done by separate contracts. Preiskel & Skvarla, 591 Main Ave., archts.

N. J., Union City — APARTMENT — Auriemma & Machi, 1739 Hudson Blvd., Jersey City, will build 4 story and basement, brick and steel, plain foundation, Bergenline Ave. and 8th St., here. $150,-000. Work will be done by separate contracts. C. I. Goldberg, 437 Bway., Bayonne, archt. Noted Nov. 17.

N. J., Weehawken — APARTMENT — J. Levine, 54 Hudson Pl., will build 5 story and basement, brick and steel plain foundation, Park Ave. $150,000. Work will be done by separate contracts. F. Huberti, 116 Hauxhurst Ave., archt. Noted June 16.

Pa., Phila. — APARTMENT—Overbrook Garden Constr. Co., 63rd and Jefferson Sts., will build 4 story and basement, 103 x 180 ft., brick and steel, plain foundation. $400,000. Work will be done by separate contracts. Private plans.

Pa., Phila.—GARAGE—Goldstein Bros., c/o J. E. Fieldstein, archt., Otis Bldg., 1 story, 103 x 215 ft., and 115 x 240 ft., rein.-con., brick and steel, plain foundation. Rochelle and Wissahickon Sts., to L. Rosengarten, Otis Bldg.

Pa., Upper Darby (Phila. P. O.)—THEATRE—Green & Willig, Heymann Bldg., Phila., 2 story and basement, 144 x 159 ft., rein.-con., brick and steel, plain founda-

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Buildings—Commercial (Continued)

tion here, to S. A. Sims & Co., 2315 Walnut St., Phila.

O., **Akron—CLUB, etc.—Vista del Largo** Beach & Club, club house, two 18 hole golf course, etc., near here, to Amer. Park Builders, 201 East Ontario St., Chicago, Ill. Archts. est. $500,000.

O., **Cincinnati** — HOSPITAL — Comrs. Hamilton Co., Nov. 1, 5 story and basement, 50 x 148 ft., brick and rein.-con., plain foundation, Gurley Rd., to Hodges Constr. Co., 241 Walnut St., $171,964. Noted Oct. 20.

O., **Cleveland**—APARTMENT—L. Cahn, 2099 Lamberton Rd., 3 story and basement, brick, Lake Ave., to Kutnick, 11511 Templett Ave. Archts. est. $200,000. Noted Dec. 1.

O., **Cleveland** — APARTMENTS — A. E. Emerman, 502 Ulmer Bldg., two 2 story and basement, 37 x 99 ft., brick, 11221 Parklawn Ave., to H. Dolinsky, 10701 Greenlawn Ave. Archts. est. $150,000. Noted Dec. 1.

O., **Cleveland**—CLUB HOUSE—Chagrin Valley Country Club, H. D. Sims, pres., 720 B. F. Keith Bldg., 1 and 2 story, 149 x 192 ft., brick, North Miles Rd., to Austin Co., 16112 Euclid Ave. Archts. est. $200,000. Noted Oct. 20.

Mich., Detroit — APARTMENT — R. W. Babcock, 8300 Woodward Ave., will build 3 story and basement, 42 x 165 ft., brick and steel, plain foundation, Seward Ave., by day labor. $175,000. Private plans.

Mich., Detroit—HOTEL—Tuller Hotel Co., Tuller Hotel, Park and Adams St., 30 story and basement, with two 10 story wings, rein.-con., brick and steel, caisson foundation, Adams Ave. and Park St., to J. W. Blair Constr. Co., 3212 Book Tower Bldg.

Mich., Fordson—FIRE ALARM—City, B. P. Esper, city clk., 2 story and basement, rein.-con., brick and steel, plain foundation, Michigan Ave., to Gamewell Co., 70 East 45th St., New York City, N. Y. Noted Nov. 3.

Ill., Chicago—APARTMENT—J. J. Jensen, archt., 1105 Lawrence Ave., masonry and carpentry contract 3 story and basement, 100 x 124 ft., brick and terra cotta, 6400-08 Glenwood Ave., to Erickson & Magnuson, 4753 Bway.; plumbing, to R. J. Nelson Co., 2130 West Van Buren St.; and heating, to W. F. Thumn, Inc., 2549 Lawrence Ave., for Devon Building Corp., c/o C. Wishnack, 6300 Kenmore Ave. Archts. est. $150,000. Noted Nov. 10.

Ill., Chicago — APARTMENTS — V. C. Carlson Constr. Co., 626 Grove St., Evanston, will construct masonry and carpentry work 6 and 8 story, 118 x 176 ft., brick, 5906-22 Clark St., here. $400,000.

Ill., Chicago—OFFICE and STORE—C. Subert, c/o L. W. Sanders & Co., archts., 30 North Dearborn St., general contract 7 story, 40 x 80 ft. and 20 x 120 ft., 306-10 West Randolph St., to Saloman-Waterton Co., 228 North La Salle St. Archts. est. $250,000.

Mo., Kansas City—HOTEL—Fisher Real Estate Co., Commerce Bldg., will build 8 story and basement, 52 x 140 ft., rein.-con. and terra cotta, 1212 Linwood Blvd., by day labor. $300,000. P. Drotts, Reliance Bldg., engrs.

Mo., Kansas City — HOTELS — Phillips Building Co., Victor Bldg., will build 3 hotels, one on southwest corner Armour and Central Sts.; 8 story and basement, corner Armour and Central Sts.; also 10 story and basement, Valentine and Bway. Sts., all rein.-con., by day labor. To exceed $150,000 each. Private plans.

Tex., McAllen—HOTEL and STORE—M. R. Nelson will build 10 story and basement, 100 x 150 ft., rein.-con., cement tile and stucco, plain foundation, by day labor. $350,000. H. P. Smith, c/o Natl. Bank of Commerce Bldg., San Antonio, archt. Noted Nov. 17.

Calif., Glendale—APARTMENT—Galvin Realty Co., 4 story and basement, brick, South Glendale Ave., to Yale Bros., 512 East Colorado St., $155,000.

Calif., Los Angeles—APARTMENT—J. Ford, 1053 South Alvarado St., 5 story, 50 x 145 ft., rein.-con. and steel, 1825 North Kingsley Dr., to A. M. McLellan, 1057 South Alvarado St. $150,000.

Calif., Los Angeles—APARTMENT—F. J. Murphy, 4 story and basement, 85 x 120 ft., brick, South Normandie Ave., to Interstate Mortgage Co., 6001 Santa Monica Blvd., approximately $175,000.

Calif., San Pedro—CITY HALL—Dept. Pub. Wks., 7 story and part basement, 100 x 117 ft., steel and rein.-con., 7th and Beacon Sts., to C. O. Brittain, supt. City Constr. Dept., under segregated contract basis. Archts. est. $570,000. This corrects report in Dec. 1 issue.

Ont., Toronto — APARTMENT — H. Davidson, 36 Toronto St., masonry and foundation contracts for 3 story and basement, rein.-con., brick, steel and stone, plain foundation, Lonsdale Rd., Forest Hill, to W. Pugh, 1252 Broadview Ave. Archts. est. $150,000.

Ont., Toronto — APARTMENT — F. M. Johnston, 52 Victor Ave., 3 story and basement, 66 x 132 ft., rein.-con., brick and steel, plain foundation, Pretoria and Broadview Aves., to Graham & Sibbett, 330 Bay St. Archts. est. $150,000.

Ont., Toronto—GARAGE—Toronto Motor Car Co., 120 Adelaide St. E., general contract 2 story and basement, 139 x 145 ft., rein.-con., brick and steel, plain foundation, Yonge St. and Orchard View Blvd., to H. A. Wickett Constr. Co., 156 Front St. E. Archts. est. $175,000. Noted Nov. 17.

Ont., Toronto — HOTEL — Canadian Pacific Ry., Windsor Sta., Montreal, Que., fabrication of structural steel frame approximately 12,000 tons for Royal Oak Hotel, 28 story and basement, 1,000 room, Front St., here, to Hamilton Bridge Wks., Ltd., General Assurance Bldg., McGregor & McIntyre, 1139 Shaw St., and Dominion Bridge Co., Reford Bldg.; erection steel, to Dominion Bridge Co., Reford Bldg. Archts. total est. $10,000,000. Noted Oct. 20.

Ont., Toronto — NEWSPAPER OFFICE and PLANT — See "Proposed Work."

B. C., Vancouver—OFFICE and SHOW ROOM—British Columbia Electric Ry. Co., 425 Carral St., 3 story and basement, 50 x 120 ft., rein.-con., steel and stone, plain foundation, Granville and Dunsmuir Sts., to A. C. McDougall & Sons Ltd., 410 Seymour St., $200,000.

Buildings—Industrial

Proposed Work

Me., Portland—PLANT—Winslow & Co., Inc., Forest Ave., plans reconstructing plant, recently destroyed by fire. $250,000. Webster & Libby, 11 Exchange St., archts. Noted Nov. 3.

Mass., Leominster—FACTORY—Foster-Grant Co., Inc., 28 Manning Ave., altering and constructing brick addition. $40,000 or more. Engineer and architect not selected.

Mass., New Bedford — GARAGE and AUTO REPAIR SHOP — H. Marcotte, 522 Ashley Blvd., having plans prepared by O. Crapo, 1428 Acushnet Ave., 1 story, 50 x 100 ft., rein.-con., plain foundation, Tarklin Hill Rd. and Belleville Ave.

Mass., New Bedford—TOY FACTORY—Ted-Toy-Lers, Inc., 60 South Water St., having plans prepared 4 story, 50 x 100 ft., brick and timber addition. $60,000. Private plans.

Mass., New Bedford—OIL DISTRIBUTING PLANT—Tide Water Oil Sales Corp., 11 Bway., New York City, having sketches made by P. G. Wyman, 11 Bway., New York City, 1 story, rein.-con., North Water St., here. $60,000.

Mass., Somerville — PLANT — Amer. Oil Products, 230 Milk St., Boston, had plans prepared 1 story, 55 x 135 ft., rein.-con. addition, plain foundation, Washington St. Monks & Johnson, 99 Chauncy St., Boston, engrs.

R. I., Providence—FACTORY—Jewelers Supply Co., c/o A. Farnham, Garnet St., having preliminary plans prepared by C. R. Makepeace & Co., Grosvenor Bldg., 2 or 3 story, steel, Eddy and Ernest Sts. $40,000 or more.

R. I., Providence—JEWELRY FACTORY—Brier Mfg. Co., 70 Ship St., having plans prepared by F. B. Perry, 44 Franklin St., 2 story, timber, plain foundation, Ship St. $75,000.

N. J., Allenhurst—STORAGE—Utilities Power & Light Corp., Bradley Beach, soon lets general contract 2 story and basement, brick and steel, plain foundation, here. $150,000. Private plans.

Pa., Pittsburgh—ICE PLANT—Consolidated Ice Co., 13th and Pike Sts., having plans prepared by C. C. Coneby, engr. and archt., 6611 Euclid Ave., Cleveland, O., 1 story, brick, steel and concrete addition. $100,000.

Md., Baltimore — PLANT — Harbison-Walker Refractories, Hays St., Pittsburgh, Pa., J. E. Lewis, pres., purchased site and plans concrete and brick, Patapsco Ave. and 9th St., here. $1,000,000. Engineer and architect not selected.

Ohio — POWER HOUSE, LAUNDRY, BAKERY, etc. — See "Buildings—Commercial."

Mich., Monroe—PAPER PLANT—Consolidated Paper Co. having plans prepared 3 story and part basement, 200 x 700 ft., rein.-con. and brick addition, plain foundation, 1st St. $500,000. Private plans.

Mich., Royal Oak (Ind. br. Detroit) — CAR REPAIRING PLANT — See "Railways."

Ill., Chicago—SUB-STATION—Sanintary Dist. of Chicago, 910 South Michigan Ave., soon takes bids electric sub-station, Howard St. $350,000. E. J. Kelly, 910 South Michigan Ave., engr.

Minn., Mankato—CEMENT PLANT—Carney Cement Co. having plans prepared by G. Pass & Son, 2 story and cupola, 40 x 130 ft. plant. $125,000.

Neb., Hastings — FREIGHT DEPOT — Union Pacific R.R. Co., R. L. Huntley, ch. engr., 1416 Dodge St., Omaha, having plans prepared freight depot, here. $75,000.

Tex., Alta Loma—FIG PRESERVING and PRODUCTS PLANT—Thaman Fig Assn., c/o F. H. and H. F. Thaman & associates, plans plant. $50,000, incl. complete equipment.

Tex., Alvin — PLANT — Magnolia Fig Products Co., c/o T. C. Edwards, Alvin, having plans prepared enlarging present plant, etc. $100,000. Private plans.

Tex., Richmond—COTTON GIN PLANT—W. T. Eldridge, Sugarland, plans cotton gin on northeast side Brazos River, near here. $50,000.

Tex., Rio Grande—PLANT—Amer. Brick Co., Inc., Nassar Bldg., McAllen, plans timber plant, $50,000 brick and 20,000 tile daily output, here. $75,000. Private plans.

Okla., Sand Springs — PLANT — Sand Springs Chemical Co., c/o O. V. Martin & W. H. Colvin, Jr., 39 South La Salle St., Chicago, Ill., purchased plant and having surveys made improvements and new equipment, here. $600,000.

Wash., Seattle — CEMENT PLANT — Pacific Coast Co., L. C. Smith Bldg., plans cement plant, 1,000,000 bbl. capacity. $3,000,000.

Ore., Portland—REPAIR SHOP, etc.—R. Hemingway, engr., Bedell Bldg., takes bids about Jan. 15, 2 story and basement, 100 x 120 ft., rein.-con. auto repair tire and battery service, East Water and East Taylor Sts., for Nicolai & Johnson. $40,000.

Calif., Chula Vista — LINEN MILL — Imperial Linen Mill Co., c/o Hamm, Grant & Bruner, Inc., engrs., Ferguson Bldg., Los Angeles, plans 1 story, approximately 30 x 970 ft., brick and steel on 50 acre site, here.

Bids Desired

Mass., Somerville (br. Boston)—WAREHOUSE—Boston & Maine R.R. Co., Boston, W. J. Backes, ch. engr., taking bids 1 story, 150 x 540 ft., brick and steel, plain foundation, Middlesex Ave., here. To exceed $40,000. Private plans.

N. Y., New York — LAUNDRY and POWER HOUSE—Dec. 14, by B. S. Coler, comr. Pub. Welfare, Municipal Bldg., alterations and additions to power house, incl. heating and refrigerating work, laundry machinery, etc., at Lincoln Hospital, Concord Ave. and East 141st St.

N. J., Newark—SHOWROOM, STORAGE and DISTRIBUTING STATION — Dec. 9, by F. A. Phelps, archt., 21 Fulton St., general contract 4 story and basement, 150 x 215 ft., brick and steel, plain foundation, 342-50 Central Ave., for Boyertown Burial Casket Co., Boyertown, Pa. $150,000. Noted Nov. 10.

N. J., Newark—INDUSTRIAL—Dec. 12, by Myers, Bigelow & Stanley, archts., 24 Walnut St., general contract 5 story and basement, 102 x 130 ft., rein.-con., brick and steel, plain foundation, Pennington St., for Salvation Army, 237 Washington St. $150,000. Noted Oct. 27.

N. J., Passaic—MANUFACTURING—See "Contracts Awarded."

N. J., Perth Amboy—AIRPLANE FACTORY—See "Contracts Awarded."

Pa., Phila.—DYE HOUSE—See "Contracts Awarded."

Mo., Vandalia—GARMENT FACTORY—Ely & Walker Dry Goods Co., 1520 Washington Ave., St. Louis, taking bids 2 story and basement, 60 x 176 ft., rein.-con. and brick, here. $45,000. O. M. Rubach, 207 Murphy Bldg., East St. Louis, Ill., archts.

Contracts Awarded

Vt., Rutland—MACHINE SHOP—F. R. Patch Mfg. Co., general contract 2 story, 88 x 145 ft. steel, concrete machine shop, incl. basement garage, to L. F. Caproni, 1056 Chapel St., New Haven, Conn.

Vt., West Rutland—SAW MILL and FINISHING SHOP — Green Mountain Marble Corp., P. F. McCormack, pres., general contract 70 x 160 ft. mill, and 120 x 160 ft., shop, both 1 story, structural steel and brick, to L. F. Caproni, 1056 Chapel St., New Haven, Conn.; and 300 ft. crane runway will be done by day labor.

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Buildings—Industrial (Continued)

Mass., Charlestown (Sta. Boston) — MANUFACTURING—Amer. Briquet Co., Land Title Bldg., Phila., Pa., 2 story, brick, plain foundation, Mystic Wharf, here, to W. W. Lindsey & Co. Inc., Harrison Bldg., Phila., Pa.

Mass., Roxbury (Sta. Boston) — FACTORY—Chickering & Sons, 791 Tremont St., Boston, altering and constructing 1 story, rein.-con. addition, plain foundation, 18 Station St., here, to W. H. Bailey Co., 68 Broad St., Boston. Archts. est. $40,000 or more. Noted Nov. 24.

Mass., South Boston (sta. Boston)—SHOP—Gillette Safety Razor Co., 41 West 1st St., 2 story, rein.-con. addition, 58 West 2nd St., to Turner Constr. Co., 178 Tremont St., Boston.

Mass., Waltham (Ind. br. Boston)—FACTORY—Reliance Garnetting Mills, 2 story, 50 x 110 ft., brick addition, plain foundation, 23 Summer St., to R. P. Meisner, Auburndale.

Mass., West Quincy (mail Braintree)—REPAIR and SERVICE GARAGE—Blue Hill Filling Station, 1230 Furnace Brook Parkway, 1 story, rein.-con., brick and steel, plain foundation, Furnace Brook Parkway, to L. L. McDonald, 47 Garfield St., South Quincy. $40,000.

Mass., West Springfield—(br. Springfield)—POWER PLANT—Boston & Albany R.R., G. A. Kirley, ch. engr., South Sta., Boston, 1 story, 50 x 114 ft., brick, steel and stone, plain foundation, to J. G. Roy & Sons Co., 21 Silver St., Springfield. Archts. est. to exceed $40,000. Noted Nov. 17

R. I., Burrillville (mail Harrisville) — MILL—Orrel Mills, Inc., Glendale, 2 story mill, here, to Eastern Constr. Co., 335 North Main St., Woonsocket. Archts. est. $40,000 or more.

Conn., Hartford — LAUNDRY — J. C. DeVito, 291 Franklin St., 1 story, 50 x 100 ft. and 25 x 35 ft. wing, brick and steel, plain foundation, 276 Franklin St., to F. Laraia, 203 Otis St.

Conn., Waterbury — FACTORY — Amer. Fastener Co., 54 Maple St., 5 story and basement, 40 x 105 ft., rein.-con. and brick, Maple St., to Complete Constr. Co., 201 Wood St. Archts. est. $75,000. This corrects report in Sept. 22 issue.

N. J., Linden — LABORATORY — Combustion Utilities Corp., 60 Wall St., New York City, general contract 1 story, 50 x 125 ft., brick and steel, plain foundation, to Austin Co., 120 Bway., New York City. Archts. est. $40,000.

N. J., Passaic — MANUFACTURING — Manhattan Rubber Mfg. Co., Willett St., will build 1 story and basement, 50 x 120 ft., brick and concrete, Van Houten Ave. $40,000. Work will be done by separate contracts. Private plans.

N. J., Perth Amboy—AIRPLANE FACTORY—Huff Airplane, Inc., I. R. Crouse, 497 Division St., will build 1 story and basement, brick and steel, plain foundation. $50,000. Work will be done by separate contracts. Greisen & Tuzik, 175 Smith St., archts. Noted Aug. 25.

Pa., Bridgeville—PAINT FACTORY—J. B. Sipe Co., general contract 1 story, 50 x 82 ft., brick and steel addition, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $40,000.

Pa., Phila.—DYE HOUSE—Heintz Mfg. Co., Front and Olney Sts., will build 1 story, 35 x 110 ft., corrugated iron and steel, plain foundation, here, by day labor. Carson & Carson, 22 South 15th St., archts.

N. C., Reidsville — FACTORY — Amer. Tobacco Co., 111 5th Ave., New York City, general contract 2 story (ultimately 7 story) and basement, 82 x 252 ft., brick and steel, here, to Fiske-Carter Constr. Co., Greenville, S. C. Noted Oct. 27.

Ill., Chicago—ALUMINUM FOUNDRY—A. A. Wickland & Co., archts., 5 South Michigan Ave., masonry contract 2 story, 145 x 160 ft., brick, 36th Pl. and California Ave., to Lind Constr. Co., 6404 South State St., for Advance Pattern Fdry. Co., 36th Pl. and California Ave. Archts. est. $250,000. Noted Nov. 17.

Ill., Chicago—FREIGHT HOUSE—Chicago & Eastern Illinois Ry. Co., L. C. Hartley, ch. engr., 66th St. and Union Ave., masonry contract 1 story, 40 x 600 ft., brick, 1401-59 South Dearborn St., to F. H. McGraw, Conway Bldg. Archts. est. $100,000.

Wis., Madison—GARAGE—R. M. Koen, 308 Commercial Natl. Bank Bldg., 1 story, 50 x 136 ft., 1910-20 Winnebago St., to Vogel Bros., 2263 East Washington Ave. Archts. est. $45,000.

Wis., Milwaukee — LAUNDRY — A. H. Kienapple, archt., 445 Milwaukee St., excavation and masonry contract for 2 story and basement, 120 x 217 ft., rein.-con., brick and steel, plain foundation, Muskego Ave., to W. O. Krohn, 623 52nd St.; carpentry, to C. A. Kleppe & Son, 229 Center St.; and tile, to Milwaukee Tile & Mosaic Co., 135 Mason St., for South Side Wet Wash Laundry, Inc., 641 15th Ave. Archts. est. $100,000.

Mo., Independence—FACTORY—Gleaner Combine Harvester Co., Inc., steel factory, here, to Truscon Steel Co., Bryant Bldg., Kansas City. Archts. est. $75,000.

Mo., Kansas City—SERVICE STATION—Scarritt Estate, Scarritt Bldg., 2 story and basement, 50 x 125 ft., rein.-con. and brick, here, to Taylor Constr. Co., Reliance Bldg. Archts. est. $50,000.

Mo., St. Louis—CLEANING and DYEING PLANT—Star Dyeing & Cleaning Co., 2515 North Grand Blvd., 2 story and basement, 74 x 91 ft., rein.-con., brick, stone and terra cotta, 2515-21 North Grand Blvd., to Mississippi Valley Constr. Co., 802 Chestnut St. Archts. est. $60,000. Noted Nov. 17.

Mo., St. Louis—SHOE FACTORY—Wolff-Tober Shoe Mfg. Co., 2511 Sullivan Ave., 2 story and basement, 54 x 102 ft., rein.-con. and brick, 25th St. and Sullivan Ave., to D. R. Harrison, 1106 Ambassador Bldg. $50,000.

Mo., St. Louis—AMMONIA PLANT—Natl. Ammonia Co., 3600 North Bway., 1 story, 76 x 150 ft., brick, concrete and steel addition, 1 Destrahan St., to A. H. Haeseler Building & Constr. Co., 620 Wainwright Bldg. Archts. est. $40,000.

N. D., Fargo — GARAGE — S. Field, Moorhead, Minn., 1 story, 100 x 140 ft. garage, 3rd Ave. and 5th St. N., to T. F. Powers & Co., 419 8th St. N. F. Archts. est. $40,000.

Tex., Houston — FACTORY — Houston Show Case & Mfg. Co., 3616 Washington St., Houston, 120 x 300 ft., 24 x 200 ft., 68 x 116 ft., and 20 x 28 ft. buildings, all 1 story, Harvard St., to E. C. Maclay Co., Houston, $200,000.

Okla., Stillwater—DAIRY and INDUSTRIAL—Bd. Affairs, Capitol Bldg., Oklahoma City, 2 story and basement, 88 x 170 ft., rein.-con. and brick dairy, plain foundation, here, to Bailey & Burns, Norman, $91,300; and 3 story and basement, 78 x 160 ft., rein.-con. and brick industrial building, plain foundation, here, to D. Tankersley, Tradesmens Bldg., Oklahoma City, $96,800, both for A. & M. College.

Ont., Hamilton—BAKERY—Ideal Bread Co., 13 Sanford Ave. S., general contract 3 story and basement, 75 x 120 ft., rein.-con., brick and steel, plain foundation, King St. and Sanford Ave., to Fred Constr. Co., 6 Hughson St. S. Archts. est. $150,000. Noted Nov. 17.

Ont., Hamilton—COKE PLANT—Hamilton By-Product Coke Ovens, 15 Main St. E., general contract, brick and steel, Depew St., to Semet-Solvay Eng. Co., 40 Rector St., New York City, N. Y., who sublet masonry contract to C. W. Parrish, 30 Cliff Ave., and steel sash, to Trussed Concrete Steel Co., Federal Bldg., Toronto. Engrs. est. $400,000.

Ont., LaSalle—BREWERY—Hofer Brewing Co., Royal Bank Bldg., Windsor, general contract 4 story and basement, 90 x 160 ft., concrete, brick and steel, Front St., here, to Gosselin Constr. Co., 120 Parlington Ave., Sandwich. Archts. est. $150,000. Noted Oct. 6.

Ont., London—BOTTLING PLANT—Labatts Brewery, bottling plant, to Hayman Sons, 432 Wellington St., $100,000.

Ont., Strathroy—WOOLLEN MILLS—Butler Woollen Mills will build 2 story and basement, 50 x 75 ft. mill, Frank St. Private plans.

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Buildings—Educational, Religious

Proposed Work

N. H., Concord — SCHOOL — St. Pauls School, S. V. Druty, in charge, having preliminary plans prepared by B. W. Morris, 101 Park Ave., New York City, school, on campus. $200,000.

N. H., Laconia — DORMITORY — State, Dept. Mental Diseases, having plans prepared by Wells & Hudson, Hanover, 3 story and basement, brick at school for Feeble Minded. $150,000 or more. Noted May 12.

Mass., Dracut (br. Lowell)—SCHOOL—Town, C. H. Randall, supt. Schools, having preliminary plans prepared by Brown & Poole, 8 Chapman St., New Bedford 2 story and basement, brick and stone, plain foundation. $150,000.

Mass., Fall River — HIGH SCHOOL — City, W. H. Monks, mayor, having plans prepared by E. Corbett, 70 Bedford St., Technical High School, brick and steel, Rock St. $1,000,000.

Mass., Fall River — LIBRARIES — City, Library Dept., plans 2 libraries, one at North Main St., and other at Grove Village with park adjoining. $150,000 or more. Engineer and architect not selected.

Mass., Grafton—HIGH SCHOOL—Town, A. S. Cole, secy. building com., plans altering and constructing 2 story and basement, brick addition. $150,000 or more. Engineer and architect not selected.

Mass., Medford (br. Boston)—DRAMA and ARTS—Tufts College, J. A. Cousens, pres., having preliminary plans prepared by Andrews, Jones, Biscoe & Whittmore, 50 Congress St., Boston, brick and steel drama and arts building. $250,000.

Mass., Medford (br. Boston) — MEN'S DORMITORY—Tuft's College, Engineering Dept., plans men's dormitory. $150,000.

Mass., Plymouth—SCHOOL—Town, T. O. Bodell, supt. Schools, plans 2 story and basement, brick and stone, Lincoln St. $150,000. Engineer and architect not selected.

Mass., Provincetown—CHURCH—Christian Science Church Corp. having sketches made by H. A. Mears, 120 Tremont St., Boston, altering and constructing 1 and 2 story and basement addition. $150,000 or more.

R. I., Pawtucket—SCHOOL—City, c/o C. H. Holt, mayor, plans 2 story, brick, Newport Ave. To exceed $150,000 or more. Engineer and architect not selected.

Conn., New Haven — MUSEUM, etc. — New Haven Historical Society, J. L. Gilson, pres., 185 Church St., having plans prepared by J. F. Kelly, 39 Center St., brick and stone museum and historical building, Whitney Ave. $300,000.

Conn., New London—NURSES HOME—Lawrence Memorial Hospital, c/o Hospital Assn., Ocean Ave., plans 3 story and basement, brick and steel nurses some, incl. gymnasium and auditorium, Montauk Ave. and Faire Harbor Pl. $150,000.

Conn., Norwalk—HIGH SCHOOL—City, Bd. Educ., J. Lund, supt., West Ave., South Norwalk, plans high school. $350,000. Engineer and architect not selected.

N. Y., Bolton Landing—SCHOOL—Bd. Educ. having plans prepared by J. R. White, 109 State St., Albany, and takes bids in early spring, high and grade school. $225,000.

N. Y., Brooklyn—CHURCH—Church of Our Lady of Refuge, Ocean and Foster Aves., having preliimnary sketches made by McKenna & Irving, 15 Park Row, New York City, granite church, Ocean and Foster Aves. $250,000.

N. Y., Brooklyn—COMMUNITY—Beth Elohim, M. Steinbrink, pres., 215 Montague St., takes bids in February, 4 story, brick and steel, 169 8th Ave., $300,000. M. E. Freehoff, 415 Lexington Ave., New York City, associated architect. D. Levy, 100 East 42nd St., New York iCty, archt.

N. Y., Mount Vernon—SCHOOLS—Bd. Educ. having plans prepared by Werner & Windolph, 1 West 47th St., New York City, altering or constructing and additions to 7 schools. $750,000.

N. Y., New York—LIBRARY—Rockefeller Institute, c/o Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., Boston, Mass., having plans prepared 3 story, basement and sub-basement, 72 x 89 ft., steel and limestone library and dining hall, concrete foundation, Exterior St. between 64th and 67th Sts., here. $500,000-$600,000.

N. J., Cliffside Park (mail Cliffside) — SCHOOL — Bd. Educ., Boro Hall, having sketches made by F. J. Ricker, 685 Hudson Ave., West New York, 2 story and basement, brick and steel, plain foundation, here. $150,000.

N. J., Elizabeth—HIGH SCHOOL—Bd. Educ., 417 South Broad St., soon takes bids general contract 4 story and basement, brick and steel, plain foundation, East Scott Pl. $400,000. H. B. Brady, 333 North Broad St., archt. Noted Apr. 14.

N. J., Elizabeth—SCHOOL—Bd. Educ., 417 South Broad St., having sketches made by H. B. Brady, 333 North Broad St., 2 story and basement, brick and steel, plain foundation, Cross Ave., $250,000; also three 2 story and basement, brick and steel additions to George Washington School 1, East Jersey St., Abraham Lincoln School, Grove St., and Theodore Roosevelt School 17, Bayway St., $150,000 each. Noted July 14.

N. J., Elizabeth—SCHOOLS—Bd. Educ., 417 South Broad St., having sketches made by H. B. Brady, 333 North Broad St., 3 schools, one 3 story and basement, Magnolia Ave. near 5th St., $300,000; and two 2 story and basement, one on Shellby Ave. and other on site not selected, $150,000 each, all brick and steel, plain foundations.

Buildings—Educational, Religious (Cont.)

N. J., Fairview—SCHOOL—Bd. Educ., Boro Hall, plans 2 story and basement, brick and steel school. $150,000. Engineer and architect not selected.

N. J., Palisades Park — SCHOOL — Bd. Educ., Boro Hall, having sketches made by Hacker & Hacker, Fort Lee Trust Bldg., Fort Lee, 2 story and basement, brick and steel, plain foundation. $175,000. Noted Nov. 10.

N. J., Perth Amboy—SCHOOL—Church of Our Lady of Hungary, 697 Courtland St., having revised plans prepared by G. M. Ricci, 224 Smith St., 2 story and basement, 85 x 200 ft., brick and steel, plain foundation, Cortland St. $175,000. Noted July 28.

N. J., Plainfield—SCHOOL—Bd. Educ., 119 West 9th St., plans 2 story and basement addition to Emerson School, plain foundation, $175,000. Engineer and architects names withheld.

N. J., Roselle Park (mail Roselle)—HIGH SCHOOL—Bd. Educ., Boro Hall, plans 3 story and basement, brick and steel high school. $250,000. Engineer and architect not selected.

N. C., Durham—SCHOOL—City, School Bd., G. C. White, chn., having plans prepared by Milburn-Heister Co., Hill Bldg., Wash., D. C., 2 story and basement, 183 x 202 ft. addition, incl. 26 class rooms, manual training, domestic science rooms, gymnasium, cafeteria and auditorium, Morgan St. $200,000 or more.

Tennessee—SCHOOLS—State Bd. Educ., Nashville, H. H. Horton, gov., soon takes bids West Tennessee State Normal School at Memphis, East Tennessee State Normal School at Johnson City, Middle Tennessee State Normal School at Murfreesboro, Polytechnic School at Cookeville, Austin Peay Normal School at Clarksville, and Agricultural and Industrial State Normal School at Nashville. $900,000 appropriated. Noted May 19.

O., Canton — CHURCH — St. Joseph Roman Catholic Church, C. H. Trieber, pastor, 2427 Tuscarawas Ave., having plans prepared by E. T. P. Graham, 171 Newbury St., Boston, Mass., and F. Stillman, associated archt., 6007 Euclid Ave., Cleveland, superstructure 1 story, limestone and steel church. $150,000.

O., Cleveland Heights (Warrensville P. O.) —CHURCH and SUNDAY SCHOOL—Immanuel Evangelical Congregation, c/o P. Moretz, pastor, 7124 Kinsman Rd., Cleveland, having plans prepared by Small & Rowley, 1836 Euclid Ave., Cleveland, 1 story and basement, 45 x 140 ft., brick, steel and concrete, here. $150,000.

O., Painesville—SCHOOLS—Bd. Educ. Painesville Twp. having plans prepared by Small & Rowley, 1836 Euclid Ave., Cleveland, two 1 story buildings and 4 room addition to present school, rein.-con., brick and steel. $200,000.

O., Yellow Springs — LABORATORY — Antioch College, A. E. Morgan, pres., plans laboratory. $300,000. Engineer and architect not selected.

Ind., Indianapolis — AUDITORIUM — School Comrs., 150 North Meridian St., had plans prepared by Vonnegut-Bohn-Muller, 610 Indiana Trust Bldg., Arsenal Technical High School Auditorium, rein. con. and steel. $215,000.

Ind., Mt. Vernon — SCHOOL — School Comrs. having preliminary plans prepared by N. S. Spencer & Son, 304 South Wabash Ave., rein.-con., brick and steel school $180,000.

Mich., Bloomfield Hills (Birmingham P. O.)—SCHOOL—Bd. Educ., having plans prepared by J. R. F. Swanson, Woodward Ave. and Long Lake Rd., 2 story and basement, 10 room, rein.-con., brick and steel, incl. auditorium, plain foundation. $325,000.

Mich., Detroit—CHURCH—Immaculate Conception Church, c/o G. A. Mueller, archt., 1510 Stroh Bldg., having plans prepared 2 story and basement, brick and steel, plain foundation, Trombly and Moran Sts. $200,000.

Mich., Pontiac — CHURCH — Central Methodist Church Congregation having plans prepared by L. Black, Capitol Natl. Bank Bldg., Lansing, 2 story and basement, brick, steel and stone, plain foundation, West Huron St. $150,000. Noted Nov. 17.

Ill., Chicago—SCHOOLS—Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., plans during 1928, Lane High School, Western Ave. and Addison St., $2,500,000; 9 high schools, one at Wabash Ave. and 49th St., one at Barry Ave. and Melvina St., one at Carmen and Christiana Aves., one at Linder and Fullerton Aves., one at 17th St. and Keeler Ave., one at Foster Ave. and Robey St., one at Sherwin and Rockwell Sts., one at 82nd St. and Essex Ave., and other in Norwood Park, $1,500,000 each; 3 elementary schools, one at Avers Ave. and Argyle St., one at Parker and Lakewood Aves., one other at Dickens and Melvina Aves., $500,000 each; 2 schools for crippled children, one at Carmen and Keystone Aves., and other at 95th and South State Sts.; also 8 additions, one at Wrightwood and Kosner Aves., one at 65th and Wood Sts., one at 49th St. and South La Salle Ave., one at 650 East 91st St., one at 133rd St. and Burley Ave., one at 10041 Union Ave., one at 54th St. and Ingleside Ave., and other at 14th St. and Kedvale Ave. J. C. Christensen, 650 South Clark St., archt.

Ill., Rockford—SCHOOL—Bd. Educ., J. Alder, pres., 615 South 4th St., having plans prepared by Peterson & Johnson, Swedish American Bldg., and takes bids early in 1928, 3 story, rein.-con., brick and stone, Huffman and Custer Sts. $350,000.

Wis., Milwaukee — CHURCH — Fourth Church of Christ Scientist, 459 Prospect Ave., having plans prepared by C. D. Faulkner, 307 North Michigan Ave., Chicago, Ill., 2 story and basement, brick and stone, Downer St. and Kenwood Ave. $200,000.

Wis., Neenah—SCHOOL—Bd. Educ., 561 East Wisconsin St., having revised plans prepared by J. D. Chubb, 109 North Dearborn St., Chicago, Ill., and takes bids in January, 2 story, 150 x 200 ft., brick and stone, Elm St. $400,000. Former bids rejected. Noted Aug. 25.

Kan., Wellington—HIGH SCHOOL—Bd. Educ. takes bids about Mar. 1, 3 story, rein.-con., brick and stone, plain foundation. $275,000. Schmidt, Boucher & Overend, 4th Natl. Bank Bldg., Wichita, archts. Noted Nov. 24.

Mo., St. Louis—NURSES HOME—Jewish Hospital, 216 South Kingshighway Blvd., having preliminary plans prepared rein.-con., brick, steel and stone, Kingshighway Blvd. and Parkview Pl.

Mo., St. Louis—SCHOOL—St. Elizabeth Catholic Parish, 2721 Pine St., purchased site and plans 3 story and basement, 130 x 152 ft., rein.-con., brick and stone, 4465 Cook St. $200,000.

Arkansas — UNIVERSITY — Methodist Church, c/o J. Thomas, pastor, Exchange Bank Bldg., Little Rock, having preliminary plans prepared rein.-con., brick and stone buildings for university. $2,500,000 upwards.

Tex., Abilene—SUNDAY SCHOOL—First Baptist Congregation, c/o W. Jackson, pastor, soon lets contract two 4 story, 80 x 140 ft. wings, North 3rd and 2nd Sts. $150,000. W. Nichol & G. F. Campbell, 29-30 Radford Bldg., Abilene, archts. Noted Nov. 10.

Okla., Ponca City—DORMITORY—Marland Refining Co., having plans prepared by J. D. Forsyth, Ponca City, Girls Dormitory known as Marland Institute, 2 story and basement, 50 x 200 ft. $150,000.

Calif., Berkeley — INFIRMARY — Bd. Regents University of California having

Latest Subway Unit Prices

All the unit prices on $21,256,380 worth of new subway contracts in New York City and Philadelphia have been printed in convenient and permanent form for use and for filing. These have not been published in *Engineering News-Record—not a reprint.*

This 8-page pamphlet gives the summaries of bids of thirty-nine (39) contractors on the following subway projects:

Route 8, Sections 6 A-1 and 6 E-2, Brooklyn, N. Y., station finish, 6 bidders; $240,509.

Route 109, Section 1, Brooklyn, N. Y. C.; 19 bidders, $3,758,992.

Route 45, Sections 1 and 2, Manhattan, N. Y. C.; 8 bidders, $9,986,999. This line passes under the Municipal Building.

Contract 109, Broad St. Subway, Philadelphia, Pa.; 6 bidders, $7,269,880.

INCLUDED—A list of the contractors who built and are building the New York City subways from 1921 through 1927. There are 46 separate contracts ranging from $45,165 to $22,282,309, and averaging $4,400,000, and totaling $201,891,355.

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Buildings—Educational, Religious (Cont.)

plans prepared by A. Brown, Jr., 251 Kearny St., San Francisco, fireproof, on campus. To exceed $500,000.

Calif., Beverly Hills—SCHOOL—Beverly Hills School Dist., having preliminary plans prepared by R. C. Flewelling, 423 Camden Dr., part 1 and 2 story, rein.-con., incl. auditorium, 550 seating capacity, library, etc. $175,000.

Calif., Long Beach—SCHOOL—Bd. Educ. having revised plans prepared by Dedrick & Bobbe, Heartwell Bldg., 3 story, 70 x 140 ft. rein.-con. and art stone, 7th St. and Locust Ave. $230,000.

Calif., Santa Barbara—SCHOOL—G. B. McDougall, state archt., Sacramento, takes bids about Jan. 15, 3 story, 150 x 200 ft., brick and rein.-con. home economics building, at State Teachers College, here, for State Building Comn., Sacramento. $165,000.

Ont., Ford City—SCHOOL—Pub. School Bd., C. W. Caple, chn., 54 Walker Rd., Walkerville, receiving competitive plans (from local architects) 2 story, 12 room, concrete, brick and stone. $175,000. Engineer and architect not selected.

Ont., Toronto — CHURCH — Bond St. United Church, Bond St., had plans prepared by S. B. Coon & Son, 4 St. Thomas St., 1 story and basement, 60 x 100 ft., concrete, brick, steel and stone, stone or brick foundation, Elginton Ave. and Avenue Rd. $150,000.

Ont., Toronto — CHURCH — Greenwood United Church, 719 Greenwood Ave., plans 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Wolverleigh Ave. near Woodkine Ave. $150,000. Engineer and architect not selected.

Ont., Toronto—LIBRARY—Library Bd., College and George Sts., having plans prepared by Chapman & Oxley, Northern Ontario Bldg., and Wickson & Gregg, Temple Bldg., 2 story, brick, steel and stone addition. $400,000. Noted Apr. 8,1926.

Bids Desired

Tenn., Memphis — LIBRARY, DORMITORY and GYMNASIUM—Dec. 15, by G. Mahan, Jr., archt., City Savings Bank Bldg., new library and gymnasium, also girls' dormitory addition, for State Bd. Educ., Nashville.

O., Cleveland—CHURCH—D. H. Farnam & R. E. Lawrence, archts., The Arcade, taking bids and open same about Dec. 28, 1 story, brick and steel Archwood Ave., for Archwood Ave. Congregational Church, L. J. Sharp, pastor, 3422 Mapledale Ave. $150,000.

Ind., Hobart—HIGH SCHOOL—School Comrs., G. Dickey, supt., taking bids 2 story and basement, 90 x 200 ft., rein.-con., brick and steel, incl. 2 laboratories, gymnasium, and 20 class rooms. $200,000. Wainwright & Vaughn, 1st Natl. Bank Bldg., Hammond, archts. Noted Oct. 27.

Ind., Indianapolis — CHURCH and SUNDAY SCHOOL—Presbyterian Church, 34th and Central Sts., taking bids steel and stone addition. $300,000. V. Eaton, 7007 Euclid Ave., Cleveland, O., engr. J. W. C. Corbusier, Keith Bldg., Cleveland, O., archt.

Ind., Indianapolis—SCHOOL—Dec. 23, by School Comrs., 150 North Meridian St., School 84, 2 story and basement, rein.-con., brick and steel, incl. auditorium, domestic science laboratory, and wood working room, 57th St. between Central Ave. and Washington Blvd. Snider & Rotz, 703 Merchants Bank Bldg., engrs. Kopf & Deery, 620 Knights of Pythias Bldg., archts.

Ill., Chicago—HIGH SCHOOL—Dec. 15, by Bd. Educ., 650 South Clark St., J. E. Fyrnes, bus. mgr., Kelley Junior High School, rein.-con., steel, stone and terra cotta, West 42nd St. and California Ave. $1,500,000. Former bids rejected. J. C. Christensen, 650 South Clark St., archt. Noted Oct. 6.

Calif., Claremont—DORMITORY—G. B. Kaufmann, archt., Union Bank Bldg., Los Angeles, taking bids 2 story, rein.-con. dormitory, here, for Scripps College for Women. $175,000. Noted Aug. 5.

Calif., Monrovia—HIGH SCHOOL—Dec. 20, by Trustees Monrovia-Durate High School Dist., 4 rein.-con. buildings. 350,000. Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted Aug. 25.

Ont., Islington—HIGH SCHOOL—S. B. Coon & Son, archts., 4 St. Thomas St., Toronto, taking bids 2 story and basement, 8 room, brick and stone, concrete foundation, here, for Etobicoke Twp., S. Barratt, clk. $150,000. Noted Nov. 17.

Bids Received

O., Cleveland — HIGH SCHOOL — Bd. Educ., F. G. Hogen, dir., Nov. 21, John Hayes High School, 4 story and basement, 200 x 238 ft., brick, steel and concrete, East 107th St., from C. Shutrump & Sons Co., Erie Bldg., $1,198,200. Noted Nov. 3.

O., Mt. Washington (sta. Cincinnati)—SCHOOL—St. Gregorys Seminary, 4 story and basement, brick and rein.-con., plain foundation, Ohio Park, from M. J. Roche Constr. Co., 600 Southern Ohio Bank, Cincinnati, $1,500,000.

Contracts Awarded

Mass., Agawam—CHURCH—St. David's Church, M. E. Mott, pastor, 1 story and basement, brick and stone, plain foundation, to W. J. Quinn, 578 Summer Ave., Springfield. Archts. est. $150,000.

N. Y., Amenia—SCHOOL—Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, general contract 24 buildings at Wassaic State School, here, to Seglin Harrison Constr. Co., 615 Walbridge St., Buffalo, $2,359,220; heating, to H. N. Gardner, 920 Green Ridge St., Scranton, Pa., $237,580; plumbing, to Chippewa Plumbing Co., 80 College St., Buffalo, N. Y., $183,223; and electrical work, to Langdon & Hughes, 246 Elizabeth St., Utica, $79,532. Grand total $2,859,535. Noted Oct. 27.

N. Y., Chappaqua — SCHOOL — J. P. Thompson, Mann & McNeille, associated archts., 70 East 45th St., New York City, 2 story, brick, Greeley Ave., here, to J. Borup, 8 Cedar St., Bronxville, for Bd. Educ. $234,360. Noted Oct. 20.

N. Y., New York—CHURCH and AUDITORIUM—St. Theresa's Roman Catholic Church, Morris Park and Pilgrim Aves., church and auditorium, to Delta Contg. Co., 30 Church St. Noted Sept. 22.

N. Y., New York—CHURCH-SCHOOL—Church of Our Lady of Angels, 2860 Sedgwick Ave., church-school, to Frank O'Hare Co., Inc., 270 Madison Ave. Archts. est. $200,000.

N. Y., Nyack — SCHOOL — Bd. Educ., Village Hall, general contract 2 story and basement, 150 x 250 ft. school, here, to Young & French, 103 Park Ave., New York City, $379,780. Noted Dec. 8.

N. Y., White Plains—CHURCH—Church of Our Lady of Mt. Carmel, 70 South Lexington Ave., 1 story, brick and stone addition, to Briante Constr. Co., 12 Hillside Ave. Archts. est. $170,000. Noted Aug. 18.

N. Y., Willsboro—HIGH SCHOOL—Bd. Educ., high school, to J. McCambly Co., Plattsburg. $133,000. Noted June 30.

N. J., North Arlington (mail Arlington)—SCHOOL—Our Lady Queen of Peace, P. O'Connor, pastor, Ridge Rd., general contract 2 story and basement, 85 x 145 ft., brick and steel, plain foundation, Ridge Rd. and Worthington Pl., to W. H. Fissel & Co., 1328 Bway., New York City. Archts. est. $150,000.

N. J., North Haledon (mail Paterson)—SCHOOL — Boro Council, Boro Hall, masonry contract 2 story and basement, brick and steel, plain foundation, to Alberg Constr. Co., 3 Church St., Paterson. Archts. est. $150,000.

N. J., Trenton—SCHOOL—Hamilton Twp. general contract 8 room addition to Klockner School, to W. Burton, 25 Winder Ave., Trenton, $118,645. Noted Aug. 18.

N. J., Union City—MONASTERY—Wilfred Anthony, archt., 131 East 47th St., New York City, general contract 3 story and basement, brick and steel, plain foundation, West St., here, to J. A. Meenan, Inc., 153 West 72nd St., New York City, for St. Michaels Monastery, 381 West St. Archts. est. $500,000. Noted Nov. 17.

O., Cleveland—ACADEMY—St. Joseph Academy, Riverside Dr., 4 story and basement, 161 x 191 ft., brick, steel and concrete, Riverside Dr., to W. J. Schirmer Co., 1720 Euclid Ave. Archts. est. $450,000.

Ind., Danville—SCHOOL—Trustees, general contract 2 story and basement, rein.-con., brick and steel, to R. Bryant, Franklin. Archts. est. $150,000. Noted Oct. 20.

Mich., Dearborn—SCHOOL—Bd. Educ., E. E. Walborn, secy., and G. D. Mason & Co., archts., Griswold St., Detroit, 2 story and basement, rein.-cno., brick and steel, plain foundation, to L. G. Olsen, 11737 Michigan Ave., Detroit. Archts. est. $200,000. Noted Nov. 3.

Federal Government Work

Proposed Work

N. Y., New York—Boiler—U. S. Engineer Office, Army Bldg., Whitehall St., plans for Lighter "Rockaway."

Va., Arlington — Water Circulating System — Spec. 5467 — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans water circulating system, at Naval Radio Station, here.

Wis., Sparta—Mess Halls, etc.—Quartermaster 6th Corps. Area, Chicago, Ill., plans 9 typical mess halls, 1 camp dispensary and 1 club at Camp McCoy, here.

Mo., St. Louis — Pipe Line Dredge — U. S. Engineer Office plans repairing and reconditioning U. S. Pipe Line Dredge "Fort Chartres."

Tex., Texas City—Federal, Post Office and Custom House—Treas. Dept., at office Supervising Archt., Wash., D. C., having preliminary plans prepared 3 story and basement, rein.-con., brick and steel federal building, post office and custom house, here.

Wash., Seattle — Dredging — U. S. Engineer Office, plans dredging salt water basin of Lake Washington Canal.

Bids Desired

Me., Portland — Dredging — Jan. 5, by U. S. Engineers Office, Custom House, Boston, Mass., dredging in Fore River, Portland Harbor, here; adv. E. N.-R. Dec. 8.

N. Y., Brooklyn—Hydrogen Gasometer—Spec. 5479—Dec. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 3,000 cu.ft. hydrogen gasometer at Navy Yard, here; adv. E. N.-R. Dec. 8. Noted Dec. 1 under "New York."

Pa., New Brighton—Enlarging—Dec. 28, by Treas. Dept., at office Supervising Archt., Wash., D. C., enlarging money order and registry division at U. S. Post Office, here. J. A. Wetmore, Wash., D. C., acting superv. archt.

Tenn., Nashville—Machinery—Jan. 9, by U. S. Engineer Office, new machinery for towboat "John C. Irwin," here; adv. E. N.-R. Dec. 8.

O., Columbus—Lighting—Dec. 16, by Treas. Dept., at office Supervising Archt., Wash., D. C., lighting at U. S. Post Office, here.

Bids Received

Mass., Camp Devens—Barracks—Constructing Quartermaster, Nov. 22, 1 infantry battalion and 1 infantry regimental barracks, here, from Van Asdlen Constr. Co., Stock Exchange Bldg., Phila., Pa., $459,846, and heating $44,160. Noted Nov. 10.

Ky., Louisville—Beartrap Leaves—U. S. Engineers Office, P. O. Box 72, fabricating and erecting beartrap leaves for Dam 53, Ohio River, here, from Independent Bridge Co., P. O. Box 1920, Pittsburgh, Pa., $58,870. Noted Nov. 10.

Contracts Awarded

N. Y., Fort Wadsworth (mail Staten Island)—Barracks—Constructing Quartermaster, 39 Whitehall St., New York City, constructing Battalion Barracks building, here, to Murch Bros. Constr. Co., Railway Exch. Bldg., St. Louis, Mo., $283,543. Noted Nov. 24.

Pa., Harrisburg — Kitchens and Mess Hall — U. S. Property & Disbursing Officer, 29 combination kitchens and mess halls, 7 animal shelters, etc., here, to S. B. Shiffler, Hummelstown, $43,396.

Ky., Dawson Springs — Boilers — U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., 4 horizontal tubular boilers for U. S. Veteran's Bureau Hospital 79, Outwood, here, to Casey-Hedges Co., Vulcan St., Chattanooga, Tenn., $7,510. Noted Dec. 1.

Mont., Fairfield—Clearing Site—Bureau Reclamation, clearing Gibson Reservoir site, 1,200 acres, Sun River Irrigation Project, to W. S. Leighty, Gering, Neb., $36,500.

California—Landing Field—Dept. Commerce, Airway Extensions, G. C. Miller, supt., Sacramento, clearing 80 acre landing field between Blue Canyon and Emigrant Gap, to M. C. Langstaff, Forest Hill, at $114.75 per acre.

Porto Rico—San Juan—Quarters—Spec. 5448—Bureau Yards & Docks, Navy Dept., Wash., D. C., double quarters at U. S. Naval Radio Station, here, to Benitez & Gautier, Box 314, Santurce, $9,500 (150 days). Noted Nov. 24.

T. H., Pearl Harbor—Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., general contract subsistence building, laundry and boiler house, at Naval Operating Base (Submarine base), here, to C. A. Blume, 1327 6th Ave., San Francisco, Calif., $444,415; also plumbing, steam heating, oil distribution and electrical work, to R. E. Woolley, 302 Castle & Cooke Bldg., Honolulu, $108,000. Noted Sept. 22.

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Unclassified

Proposed Work

Comfort Station—Dorchester (br. Boston), **Mass.**—City of Boston, Park Dept., 33 Beacon St., plans concrete comfort station in Town Field. $50,000. W. P. Long, chn. Park Dept.

Golf Course—Shrewsbury, Mass.—Hillswold Club, Inc., W. E. Stiles, pres., plans 36 hole golf course, Cherry St. Section. $25,000 or more. Stiles & Van Kleek, 97 Newbury St., Boston, archts.

Comfort Station—Pawtucket, R. I.—City, c/o C. Holt, mayor, plans comfort station, Dexter and Main Sts. $25,000. G. A. Carpenter, city engr.

Grade Crossing Elimination — Cheektowaga (mail Depew) **N. Y.**—Pub. Serv. Comn., Albany, plans eliminating Harlem Ave. crossing New York Central R.R. tracks, by raising grade railroad on overhead structure. $200,000.

Amusement Park—St. Bernard, La.—St. Bernard Realty & Amusement Co., Inc., New Orleans, purchased 100 acre site and plans amusement park, incl. grandstand, club house, stable, swimming pool, dance hall, picnic grounds and concessions stands, here. $1,000,000. Engineer and architect not selected.

Gas Holder—Duluth, Minn.—C. E. Evans, city comr. with supervision Duluth Water & Light Dept., plans $500,000 program, incl. 3,000,000 cu.ft. gas tank (bids in January) gas compressing plant for 1928, $340,000; installing 16 in. gas mains from Garfield Ave. and Superior St. to 8th Ave. for 1930, $240,000; and constructing 1,000,000 cu.ft. gas holder in eastern section city for 1931, $140,000. Engineering forces Duluth Water & Light Dept., will prepare plans.

Boiler—St. Paul, Minn.—Ramsey Co. Bd. Control, O. J. Tong, secy., 207 Pittsburgh Bldg., soon takes bids boiler in heating system and laundry equipment at Ancker Hospital, Jefferson and Colborne Sts. $50,000.

Lighting System—St. Joseph, Mo.—Making preliminary plans White Way lighting system, 152 type 61-D king posts, 393 type 1227-D king bracket lights, and resetting 100 intersection lamps, etc. $64,500. W. M. Spann, City Hall, engr.

Health Resort—Baxter (mail Pueblo), **Colo.**—J. D. Crosby, 2143 South Acoma St., Denver, M. Stein, 122 East 4th St., Pueblo and H. Greenlade, Pueblo, plan health resort around two hot mineral wells, incl. hotel, cottages, store, garage, filling station, etc., here. $350,000-$500,000. Architect not selected.

Gas Mains—Pueblo, Colo.—Pueblo Gas & Fuel Co., 120 West 5th St., and H. L. Doherty Co., 60 Wall St., New York City, made surveys expansion and improvement city gas mains. $250,000.

Oil Pipe Line—Texas—West Texas Pipe Line, Midland (subsidiary of Atlantic Refining Co., 1211 Chestnut St., Phila., Pa.), plans 71 mi. 10 in. oil pipe line from Hendricks pool in Winkler Co. to Midland, here. $2,000,000. Work will probably be done by day labor. Private plans.

Land Development — Galveston, Tex. — Cedar Lawn Co., c/o C. W. Thompson, Central Natl. Bank Bldg., making plans developing "The Gardens" subdivision, incl. shell streets, water distributing system and sanitary sewerage system. To exceed $25,000. Private plans.

Transmission Line—Jacksonville, Tex.—Gulf Pub. Serv. Co., New Iberia, La. (subsidiary of General Pub. Utilities Co.), making plans transmission line from Jacksonville to Troup via Mount Selman, here. $50,000.

Lighting System—Oklahoma City, Okla.—Made preliminary plans 200 post White Way circuit on Hudson St., Grand and Washington Aves. $30,000. B. M. Hart, City Hall, engr.

Lighting System—Los Angeles, Calif.—Plans ornamental lighting system in various sections city. $75,000.

Encampment—San Luis Obispo, Calif.—State of California and Federal Govt. having plans prepared by G. B. McDougall, Sacramento, frame buildings on concrete foundations, roads, water, electric and sewerage systems, etc., for Natl. Guard Permanent Encampment, here. $500,000.

Car Barns, etc.—Toronto, Ont.—Toronto Transportation Comn., 35 Yonge St., making plans 1 story, concrete, brick and steel car barns, concrete foundations incl. yards, steam boiler plant, Runnymede Dist. $500,000. Private plans.

Bids Desired

Sewer Connections, etc. — New York — Dec. 16, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, constructing sewer connections at various locations Brooklyn and Queens Boros; also miscellaneous construction at 8th St. Station, Bway.-4th Ave. Rapid Transit R.R., here.

Fire Alarm System—Brooklyn, N. Y.—Dec. 12, by J. J. Dorman, comr. Fire Dept., Municipal Bldg., New York City, portion underground fire alarm system, in Flatbush, Boro Park, and Bensonhurst, here.

Electric Lighting System — New York, N. Y.—Dec. 15, by B. M. Patten, comr. Pub. Markets, Municipal Bldg., electric lighting system in railroad yard and approach area and under viaduct Bronx Municipal Terminal Market, Exterior and 151st Sts.

Hangar—Rochester, N. Y.—Dec. 14, by Dept. Pub. Wks., City Hall, hangar building at Municipal Aviation Field, Scottsville Rd.

Wharf Sheds—Lake Charles, La.—Dec. 20, by G. Beatty, pres. Lake Charles Harbor & Terminal Dist., 3 steel wharf sheds. $160,000.

Grade Crossing Elimination—Cleveland, O.—Dec. 28, by Bd. Comrs. Cuyahoga Co. (1st unit) grade crossing elimination Henry St. Sect. White House Crossing, 81,000 cu. yd. excav., 2,310 cu.yd. 1-2-4 Class "C" concrete paving, 450,000 lb. reinforcing, etc. $156,560. F. Lander, Court House, engr.

Transmission Line — Washington — Dec. 27, by City of Morton, power transmission between Morton and LaGrange via Elbe and Mineral. $60,000.

Tunnel—North Vancouver, B. C.—Dec. 19, by W. D. Harvie, secy. Harbor Comrs., 525 Seymour St., Vancouver, ½ mi. 16 x 26 ft. 18 in. rein.-con. tunnel under Lonsdale Ave. $260,000. H. W. Frith, 525 Seymour St., Vancouver, engr. Noted July 14.

Contracts Awarded

Tunnel—Lynn, Mass.—Lynn Gas & Electric Co., 90 Exchange St., 700 ft. 6 x 6 concrete tunnel, off Broad St., to R. E. Runels Constr. Co., Hildreth Bldg., Lowell.

Swimming Pool—Somerton (sta. Phila.), **Pa.**—Owner, c/o E. A. Schoppe, archt., 1437 Spruce St., Phila., 75 x 100 ft., rein.-con. swimming pool and filters, lockers, etc., Lincoln Highway, here, to Nason & Cullen, Ardmore. Noted Nov. 24.

Golf Course, Yacht Basin, Etc.—Jacksonville, Fla.—Riboult Corp. constructing golf links, club house and yacht basin, St. George Island, near here, to O. P. Woodcock Co., Barnett Bank Bldg. Archts. est. $150,000.

Grain Elevator — Council Bluffs, Ia. — Chicago & Northwestern R.R. Co., West Jackson and Franklin Sts., Chicago, Ill., W. J. Towne, ch. engr., 113 x 160 ft., rein.-con. addition to grain elevator, 110 ft. high, incl. 35 bins and 24 interspaces each 110 ft. high, 1,100,000 bu. capacity, north 8th St. and Ave. L, here, construction above piles, to Barnett-Record Co., Flour Exchange Bldg., Minneapolis, Minn.; excavation, to C. A. Wickham & Co., Council Bluffs, and pile driving, to Whitney Bros. & Co., Duluth, Minn. Engrs. total est. $250,000.

Steel Tank—Missouri—See "Railways."

Skating Rink and Swimming Pool—Kansas City, Mo.—Pli-Mor Co., 32nd and Main Sts., general contract rein.-con. and steel, 32nd and Main Sts., to Fogel Constr. Co., 618 Reliance Bldg. Archts. est. $300,000.

Natural Gas Pipe Line, etc. — Texas — Stamford Gas Co., c/o C. O. Moore, pres., Stamford, 341 mi. 8 in. all-welded gas pipe line from line Northern Texas Utilities Co. near Chillicothe extending to Stamford, Hamlin, Rotan and Roby, also natural gas distributing system, 6- to 8-in. mains, laterals and booster unit, in Stamford, to Skaggs Bros., Stamford, approximately $2,500,000 and $75,000 respectively.

Materials

Proposed Work

Cement—Chicago, Ill. — Cook Co. Highway Dept., 137 North Clark St., takes bids about Dec. 15, 750,000 bbl. cement. G. A. Quinlan, County Building, engr.

Cast Iron Main—San Bernardino, Calif.—W. Starke, city water supt., plans purchasing 500 ft. 20 in. c.i. main for installation across Lytle Creek dip on West Base Line.

Bids Desired

Cast Iron Pipe, etc.—Boston, Mass.—Dec. 21, by Supply Dept., H. S. Frost, supt., 900 tons 8 in., 50 tons 10 in., 800 tons 12 in., and 50 tons 30 in. Class "B" c.i. pipe, 50 tons special castings, etc. to Pub. Wks. Dept.

Iron Castings—Boston, Mass.—Dec. 16, by Supply Dept., H. S. Frost, supt., 400,000 lb. gate and hydrant iron castings to Pub. Wks. Dept.

Iron Castings—Boston, Mass.—Dec. 19, by Supply Dept., H. S. Frost, supt., 400,000 lb. c.i. branches and curves, also 100,000 lb. 9x9 c.i. flanged frames to Pub. Wks. Dept.

Pipe Stock—Boston, Mass.—Dec. 15, by Supply Dept., H. S. Frost, supt., 200,000 lb. c.i. service pipe stock, also 400,000 lb. c.i. frames and covers to Pub. Wks. Dept.

Sand, etc.—Long Island City, N. Y.—Dec. 13, M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 12,000 cu.yd. sand in scows, and 30,000 cu.yd. broken stone and screenings to Flushing Asphalt Plant; 3,000 cu.yd. broken stone of trap rock screenings and 4,000 bags portland cement.

Pipe, Frogs, Crossings, etc.—Phila., Pa.—Dec. 16, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 32nd and Market Sts., West Phila., pipe, Contr. 128; crossings, frogs and switches, Contr. 129; recropping rail, Contr. 130.

Corrugated Metal Culvert Pipe—South Carolina—Dec. 21, by State Hy. Dept., Columbia, specified sizes corrugated metal culvert pipe and creosoted timber guard rail posts, etc., for use in maintenance work during period Jan. 1 to Dec. 31, 1928. B. M. Sawyer, Columbia, ch. highway engr.

Gravel — Meridian, Miss. — See "Streets and Roads."

Electric Light Cable—Chicago, Ill.—Dec. 14, by M. J. Kennedy, comr. Gas & Electricity, Room 614, City Hall, various kinds and amounts electric light cable for extending street lighting system.

Paint, Enamel, etc.—Iowa—Dec. 27, by State Hy. Comn., Ames, bridge paint, equipment enamel, marking paint, calcium chloride and bituminous materials for repairing concrete pavement cracks. R. F. White, highway comr.

Water Pipe and Valves, etc. — Pueblo, Colo.—Dec. 13, by Trustees Pueblo Water Works, 319 West 4th St., 247 tons 24 in. and 399 tons 20 in. Class "B," 216 tons 24 in. and 122 tons 16 in. Class "A" bell and spigot pipe, 42,460 lb. pig lead, 1,400 lb. jute packing, six 24 in., four 20 in., two 16 in., two 8 in. and thirty-six 6 in. hub end gate valves, 48 crosses, tees, plugs and reducers of Class "B" and "D," ranging in various dimensions, one flanged 90 degree base ell, etc. $100,000. D. D. Porter, 319 East 4th St., Pueblo, engr.

Pipe—Arcadia, Calif.—G. G. Meade, city clk., taking bids 300 ft. 8 in. and 800 ft. 10 in. pipe Class B-150 or sand-cast centrifugal pipe.

Pipe—Burlingame, Calif.—City Purchasing Agent taking bids 42,600 ft. 2- to 12-in. Class "B" iron pipe.

Bids Received

Steel Sheet Piling—Houston, Tex.—For 36,378 sq.ft. steel sheet piling, from Sheet Piling Inc., 17 John St., New York City, $18,498.

Contracts Awarded

Structural Steel and Lumber—Cincinnati, O.—Comrs. Hamilton Co., Court House, 246,500 lb. structural steel for temporary viaduct over Cleveland, Cincinnati, Chicago & St. Louis R.R. tracks and Mill Creek, on 6th St., to General Iron Wks. Co., Front and Harriet Sts., $9,219 engrs. est. $10,846; also 6,760 lin.ft. white oak piling, 212,000 ft. structural fir timbers, 89,124 ft. No. 1 and 3,667 ft. No. 2 common pine, to Buskirk Lumber Co., 8th and Horne Sts., $16,296 engrs. est. $17,642. Noted Nov. 3.

Aggregate — Anamosa, Ia. — Auditor Jones Co., 51,000 tons coarse aggregate for concrete paving Federal Aid Project 86, to Dubuque Stone Products Co., Dubuque, $62,620.

Pipe—El. Centro, Calif.—For 3,000 ft. 4 in. "B" c.i. pipe, to Pacific States C. I. Pipe Co., Subway Terminal Bldg., Los Angeles, at $0.444 per ft.

Pipe, etc. — Los Angeles, Calif. — City Water & Power Comn., wrought steel pipe under P. A. W-836, and wrought steel nipples under P. A. W-837, to Petroleum Equipment Co., 2800 South Alameda St., at $12.20 per C ft. and $54.23 per C respectively.

See proposal advertising on page 145

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UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Thirteen Bids on Eight Types of Pavement in Mississippi

Between the low and the high of the thirteen bids submitted for paving with concrete 15 mi. of the Raymond-Utica highway in Mississippi was a difference of only 14 per cent. Bids were asked on eight types of pavement, but the lowest bid of all was for plain concrete, Bates type section, 9-6-9, 1:2:3 mix, submitted by the Lawrence Construction Co. of Jackson, Miss., $410,191.52, to whom the contract was awarded.

This project is one of several that are to be constructed in Hinds County, in which is the state capitol, and which has the highest assessed valuation in the state. This section is part of the 100 mi. program now under way. It will connect at Raymond with the paved road from Raymond to Jackson. Federal aid is not given this project, which is constructed wholly from county funds.

All materials are furnished by the contractor. Cement was quoted by the mills at $2.70 per bbl., f.o.b. any of the shipping points from Raymond to Utica. Local gravel from pit within 9 mi. of Utica via rail was quoted at 95c. per ton f.o.b. shipping points; sand from same source, 80c. per ton. The nearest competing gravel and sand were quoted at $1.25 and $1 per ton f.o.b. job.

The average haul from shipping points upon the railroad is 3½ mi. The maximum grade of the road to be constructed is 5.65 per cent, and upon the side roads from railroad to project 7 per cent.

As indicated by the close total bids, the unit prices for the large items are remarkably close. Common excavation varies between 30c. and 39c.; borrow excavation between 28c. and 35c. The concrete pavement low bid is $1.87, and the range is $1.83 to $2.17 (highest bidder for total job). The range on reinforcing steel is 4c. to 6c.; structural steel, 5½c. to 7c.

The lowest five and highest bidders, together with their unit prices, are as follows: (A) Lawrence Construction Co., Jackson; (B) Miller-Hutchinson Co., Taylorville, Ill.; (C) S. K. Jones Construction Co., Memphis, Tenn.; (D) Merrill Engineering Co., Jackson; (E) Langston Contracting Co., Orlando, Fla.; (F) R. G. Lassiter & Co., Raleigh, N. C.

	A	B	C	D	E	F
209 100-ft. sta. clearing and grubbing	$12.50	$15.00	$17.00	$10.00	$10.00	$6.00
1,000 cu.yd. solid rock excav.	1.00	1.00	1.00	1.50	2.50	2.00
91,845 cu.yd. common excav.	0.31	0.39	0.34½	0.30	0.32	0.33
16,459 cu.yd. borrow excav.	0.31	0.35	0.34½	0.28	0.30	0.35
10,000 cu.yd. subgrade treatment (gravel to be used to furnish necessary 3-in. subbase for "Black Base")	....	....	....	1.50	....	....
169,826 lin.ft. 6x18 conc. curb (to be used with "Black Base")	....	....	....	0.30	....	....
169,826 sq.yd. 7-5-7 portland cement conc. base course	....	....	....	1.25	1.35	1.40
160,391 sq.yd. 4½ in. asphaltic conc. base course ("Black Base")	....	....	....	0.84	....	....
160,391 sq.yd. asphaltic conc., surface course	....	....	....	0.84	0.75	1.15
160,391 sq.yd. Warrenite-bitulithic pavement surface course	....	....	....	....	....	1.25
160,391 sq.yd. sheet asphalt binder and surface course	....	....	....	1.14	....	1.30
169,826 sq.yd. cement conc. pavement, plain (9-6-9 Bates type)	1.87	1.83	1.88	1.93	1.94	2.17
169,826 sq.yd. vibrolithic conc. pavement (1:2:4 mix, 9-6-9 Bates type section)	....	....	....	2.19	....	....
687 cu.yd. Class "A" conc. in culverts (1:2:4 mix)	19.00	20.50	21.00	22.00	21.00	23.00
846 cu.yd. Class "A" conc. in bridges (1:2:4 mix)	23.00	20.50	23.00	22.00	22.00	24.00
168,567 lb. reinforcement steel in culverts and bridges	0.04½	.05	0.04½	0.05	0.05	0.05
120,230 lb. structural steel (all 30 in. I-beams)	0.05½	0.06	0.06	0.05	0.07	0.07
893 lin.ft. conc. handrailing on bridges	2.50	2.50	2.50	2.50	3.50	3.00
245 lin.ft. 18 in. pipe culverts	2.25	2.75	2.25	2.00	2.50	2.25
577.5 lin.ft. 24 in. pipe culverts	3.50	4.00	3.25	2.75	3.50	3.50
2,000 lin.ft. untreated timber, foundation piling	0.80	0.80	0.85	0.75	0.50	1.00
8 miles sodding	100.00	200.00	100.00	90.00	150.00	100.00
379 100-ft. sta. fencing rebuilt	4.00	3.00	1.00	8.00	3.00	1.20
Working days	325	300	200	450	....	400
Total, less paving	$92,617	$102,337	$98,563	$94,683	$97,898	$100,779
Total conc. base, asphaltic conc	.....	.....	.....	441,694	447,456	522,985
Total conc. base, Warrenite	.....	.....	.....	.....	.....	539,024
Totals conc. base, sheet asphalt	.....	.....	.....	489,811	.....	547,044
Totals black base, asphaltic conc	.....	.....	.....	414,048	.....	.....
Totals black base, Warrenite	.....	.....	.....	.....	.....	.....
Totals black base-sheet asphalt	.....	.....	.....	426,880	.....	.....
Totals, conc. pavement	$410,192	$413,119	$417,836	$422,447	$427,360	$469,302
Totals, vibrolithic pavement	.....	.....	.....	466,602	.....	.....

Engineering News-Record, Issue of December 8, 1927.

Wide Variation in Bids for a St. Joseph, Mo., Sewer

Twenty bids were submitted for the Brookdale-Petee relief sewer in St. Joseph, Mo., ranging from $462,149.94 to $765,946.15. The wide difference was probably due to hazardous construction which was variously estimated. The low bidder (A. A. Davis & Co., Kansas City) was awarded the contract.

The sewer to be constructed is 9,500 ft. long, extending from 19th St. at Lafayette St., running in a northeasterly direction and paralleling the Chicago, Burlington & Quincy R.R. to 26th St.; then north and east through the Brookdale residential section and the Moila Golf course to end at Frederick Ave. The distance paralleling the railroad, 2,747 ft., will have to be protected with steel sheet-piling to hold the railroad embankment. Also in this section there are two places, 1,000 ft. long in one place and 600 ft. long in another, where the new sewer replaces the present sewer. These two sections must be constructed in the same place as the present sewer which carries the flow of Patee Creek and the entire flow must be handled during construction. The size of the sewer varies from 13 ft. at the lower end to 8 ft. at the upper end and is what is known as the Louisville semi-elliptical section. The concrete varies from 2.45 cu.yd. with 552 ft. steel per linear foot for the 13-ft. section, to 0.9 cu.yd. concrete and 188 ft. steel per linear foot for the 8-ft. section.

There are three junction chambers from its beginning at 19th St. to the edge of the Moila Golf Course, a distance of about 7,000 ft., the new sewer either parallels or replaces the present Brookdale Main Sewer. All connections cut by the new sewer must be connected to it. The cut varies from 15 to 23 ft. in a material that varies from black loam to a heavy blue clay that is

(*Concluded on page 294a*)

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UNIT PRICES Continued on page 294a

Hercules
ENGINES

POWER for ditching—more power for hoisting and still more power to move around—but even these demands do not affect the flow of steady Hercules Power.

The most difficult jobs on the schedules are adding to the good name of Hercules Engines. Hercules Engines add to the good name of any Hercules powered equipment.

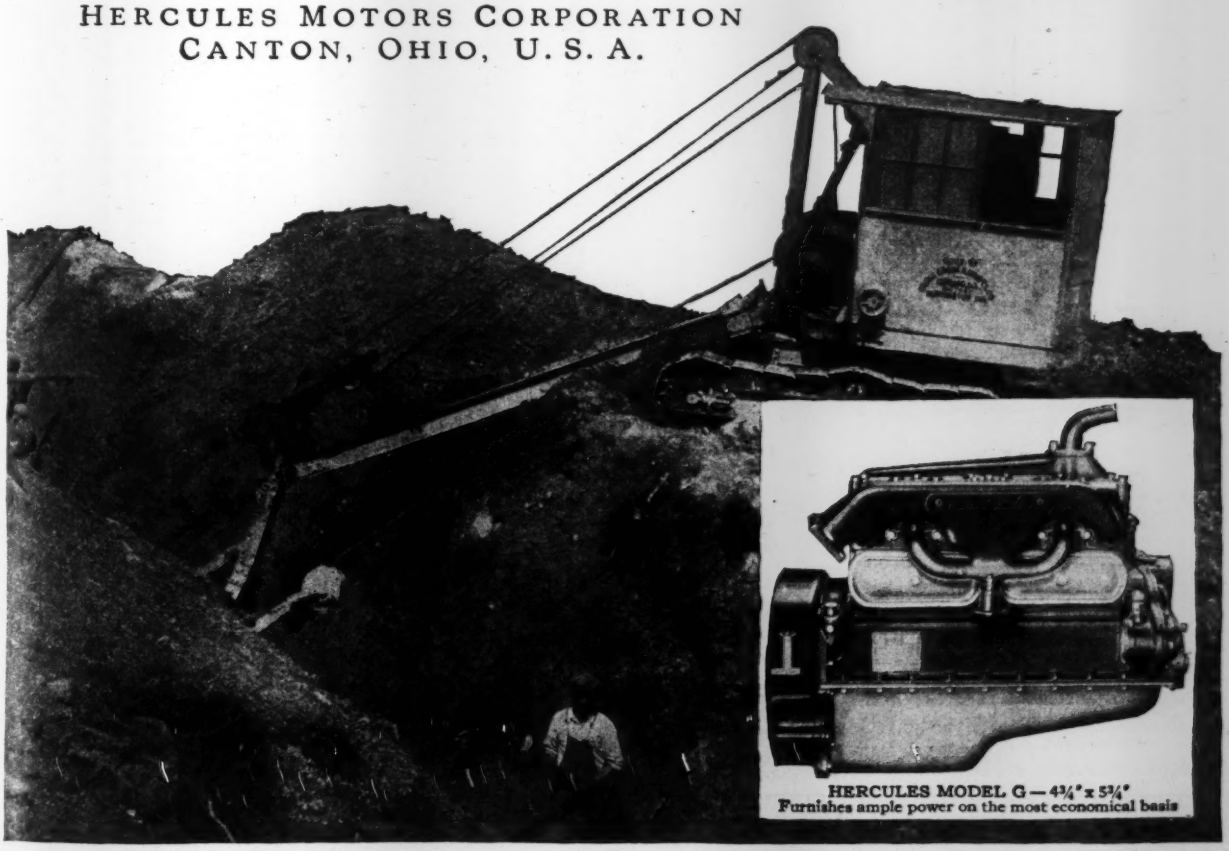
There is greatest rigidity in Hercules simplified design and precision manufacture. Rigidity means shock resistance—stamina—a power supply of greatest endurance.

Hercules power charts show more work per day, more days of service per year, and years and years of *extra* usefulness. The broad Hercules experience and the conscientious study of every commercial and industrial power need enables Hercules to apply the most enduring power for the greatest economy.

HERCULES MOTORS CORPORATION
CANTON, OHIO, U. S. A.

The ORTON

MODEL "V" DITCHER
TRAVELS AND WORKS BY
HERCULES POWER



HERCULES MODEL G—4¾" x 5¾"
Furnishes ample power on the most economical basis

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

(*Continued from page* 294)

wet. The ground water averages about ten feet below the surface of the ground. The first 7,000 ft. of the sewer runs through an industrial and residential section of the City, the last 2,500 ft. being through a golf course and cultivated ground.

The construction of this sewer is necessitated by the fact that the present main sewer is inadequate along the sections to be replaced. The section from 19th St. along Mitchell Ave. to the river is either round or egg-shaped, constructed of either brick or concrete and is in fair condition. A contract has been let to The Gunite Construction Co., Kansas City, Missouri, for the repair of this sewer for a distance of 5,200 ft. at $6 per foot.

The new sewer extends entirely through the Brookdale section of the city and will have ample inlets to catch the flood waters from the paved areas as fast as they reach the sewer. The heavy rain in June 1925 caused considerable damage to this section of the city, one industrial firm suffered a loss amounting to $172,000. The heaviest rainfall on record shows 2.55 in. in 80 minutes on June 24, 1924, and 6.2 in. in 275 minutes on June 3, 1925. The maximum intensity of rainfall recorded was at the rate of 5 in. per hour for a five minute period; this total rain averaged 2.97 in. for sixty minutes. The run-off at the river end of this sewer is estimated at 3,000 cu.ft. per second, taking care of an area of 133 acres. Velocity in this sewer varies from 17 to 20.1 ft. per second. The open area north of the north end of the sewer is 50 acres of cultivated ground and pasture. As stated before, the area around the south end of the sewer is 60 to 70 per cent paved and roofed. The Weather Bureau in this city computes 146 working days as an average per year, exclusive of Sundays and holidays. The work is to be completed in 300 working days or approximately Oct. 1, 1928.

The contractor has started work, using a Northwest Clam Shell and Blaw-Knox steel forms. He expects to complete about 25 ft. of concrete per day with this crew and later on will add another outfit.

Materials used in this job are figured at the following prices: cement, f.o.b. cars, nearest side track to work $2.19 per bbl., net; crushed stone, $2.05 per ton f.o.b. cars, or $2.50 per ton delivered on the job; sand, 80c. per ton at the plant with approximately 40c. per ton haul, and 8c. per ton discount for cash; reinforcing steel, 4½c. per lb. delivered on the job.

The lowest eight and highest bidders, together with their unit prices, are as follows: (A) A. A. Davis Co., Kansas City; (B) The Whitmire Construction Co., North Kansas City; (C) Moss; (D) Floyd-Shoffner & Co.; (E) Dobson & Humphreys; (F) Torson; (G) Judson; (H) Reed & Wheelock; (I) Patterson.

PROJECT NO. 1	A	B	C	D	E	F	G	H	I
41,059 cu.yd. excav.	$1.10	$1.42	$1.35	$1.70	$2.30	$1.35	$2.25	$1.00	$2.50
5,875,800 cu.yd. Class "B" conc.	15.20	15.85	16.50	19.00	17.50	16.00	13.50	23.75	24.00
1,200,421 lb. steel reinforcement	0.04	0.04	0.046	0.04	0.373	0.06	0.04	0.05	0.05
9 standard curb inlets	65.00	62.30	135.00	75.00	30.00	50.0	75.00	60.00	40.00
9 standard multiple inlet units	50.00	148.00	165.00	50.00	100.00	135.00	60.00	130.00	100.00
7 side manholes, complete	200.00	119.00	50.00	116.00	100.00	100.00	100.00	150.00	200.00
2 back-water traps	50.00	180.00	45.00	166.00	75.00	50.00	75.00	200.00	30.00
20 lin.ft. 12 in. V.C. pipe	2.50	3.20	2.50	2.00	1.25	2.00	1.60	1.00	2.00
92 lin.ft. 18 in. V.C. pipe	3.00	4.40	3.50	3.00	1.75	3.00	2.40	2.00	2.50
48 lin.ft. 24 in. V.C. pipe	4.00	6.35	5.50	5.00	3.50	4.00	3.40	3.00	3.50
32 lin.ft. 60 in. reinf. conc. pipe	16.00	36.75	15.00	12.50	15.00	16.00	15.00	12.00	20.00
1,500 lin.ft. creosoted timber	0.90	1.00	1.50	1.25	1.25	1.00	2.00	1.50	1.50
5,000 ft. B.M. timber and sheeting	47.50	100.00	90.00	65.00	50.00	50.00	1.25	70.00	80.00
500 cu.yd. crushed stone	3.75	4.05	3.50	4.00	4.00	6.00	6.00	3.50	6.00
Total	$189,521	$208,512	$216,305	$236,882	$249,016	$229,702	$229,308	$248,872	$313,135
PROJECT NO. 2									
54,285 cu.yd. excav.	$0.76	$1.01	$1.10	$1.00	$1.60	$1.00	$1.84	$0.80	$2.00
7,472.70 cu.yd. class "B" conc	15.20	16.00	16.50	17.00	13.40	15.00	13.50	23.00	22.00
1,413,644 lb. steel reinf.	0.04	0.04	0.046	0.04	0.0377	0.06	0.04	0.05	0.05
19 standard curb inlets	65.00	62.30	135.00	75.00	30.00	50.00	75.00	60.00	40.00
16 standard multiple inlet units	50.00	148.00	165.00	50.00	100.00	130.00	50.00	130.00	100.00
1 type "A" inlet	50.00	38.00	35.00	50.00	40.00	60.00	100.00	200.00	60.00
12 side manholes	200.00	119.00	50.00	116.00	100.00	100.00	100.00	150.00	200.00
100 lin.ft. 12 in. V.C. pipe	2.50	3.20	2.50	2.00	1.25	2.00	1.60	1.00	2.00
164 lin.ft. 18 in. V.C. pipe	3.00	4.50	3.50	3.00	1.75	3.00	2.40	2.00	2.50
250 lin.ft. 24 in. V.C. pipe	4.00	6.50	5.50	5.00	3.50	4.00	3.40	3.00	3.50
1,500 lin.ft. creosoted timber	0.90	1.00	1.50	1.25	1.25	1.00	2.00	1.50	1.50
5,000 ft. B.M. timber and sheeting	47.50	100.00	90.00	65.00	50.00	50.00	125.00	70.00	80.00
500 cu.yd. crushed stone	3.75	4.05	3.50	4.00	4.00	6.00	6.00	3.50	6.00
Total	$221,077	$242,663	$260,530	$247,675	$249,107	$261,926	$268,865	$296,730	$355,606
PROJECT NO. 3									
11,160 cu.yd. excav.	$0.40	$0.90	$1.25	$0.70	$1.30	$1.00	$1.20	$0.50	$2.50
1,904.4 cu.yd. Class "B" conc	15.20	18.80	16.50	15.00	23.20	15.00	13.50	23.00	24.00
377,244 lb. steel reinforcement	0.04	0.042	0.046	0.04	0.378	0.06	0.0425	0.05	0.05
2 standard curb inlets	65.00	62.30	135.00	75.00	30.00	50.00	75.00	60.00	30.00
4 standard multiple inlets	50.00	148.00	165.00	50.00	100.00	130.00	60.00	130.00	100.00
3 type "A" inlets	50.00	38.00	35.00	50.00	40.00	60.00	100.00	200.00	40.00
1 side manholes, complete	200.00	119.00	50.00	116.00	100.00	100.00	100.00	150.00	150.00
84 lin.ft. 18 in. V.C. pipe	3.00	4.60	2.50	3.00	1.75	3.00	2.40	2.00	2.50
16 lin.ft. 24 in. V.C. pipe	4.00	6.55	5.50	5.00	3.50	4.00	3.40	3.00	3.50
100 lin.ft. galv. iron drift fence	0.75	2.16	1.50	4.00	2.00	5.00	3.00	5.00	5.00
1,000 lin.ft. creosoted timber	0.90	1.00	1.50	1.25	1.25	1.00	2.00	1.50	1.50
3,000 ft. B.M. timber and sheeting left	47.50	100.00	90.00	65.00	50.00	50.00	125.00	70.00	80.00
250 cu.yd. crushed stone	3.75	4.05	3.50	4.00	4.00	6.00	6.00	3.50	6.00
Total	$51,552	$65,660	$66,904	$55,261	$76,433	$66,727	$60,355	$72,934	$97,204
Grand total	462,150	516,835	543,739	539,819	574,556	558,355	558,529	618,537	765,946
Combination bids	.....	—20,673	—5,000	.....	—20,000	.....	—5,585	.....	.....
Net bid total	462,150	496,162	538,739	539,819	554,556	558,355	552,944	618,537	765,946

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